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SEQUENCE LISTING

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(1) GENERAL INFORMATION:

- (i) APPLICANT: FLECKENSTEIN, Bernhard ENSSER, Armin
- (ii) TITLE OF INVENTION: HUMAN SEMAPHORIN L (H-SEMAL) AND CORRESPONDING SEMAPHORINS IN OTHER SPECIES
- (iii) NUMBER OF SEQUENCES: 44
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Frommer Lawrence & Haug LLP
 - (B) STREET: 745 Fifth Avenue
 - (C) CITY: New York
 - (D) STATE: New York
 - (E) COUNTRY: USA
 - (F) ZIP: 10151
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 Brown Committee Committee
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US NYA
 - (B) FILING DATE: 09-JUL-1998
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Lawrence, William F.
 - (B) REGISTRATION NUMBER: 28,029
 - (C) REFERENCE/DOCKET NUMBER: 514429-3647
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 212-588-0800
 - (B) TELEFAX: 212-588-0500
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2636 base pairs
 - TYPE: nucleic acid
 - (STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CGGGGCCACG GGATGACGCC TCCTCCGCCC GGACGTGCCG CCCCCAGCGC ACCGCGCGCCC 60 CGCGTCCCTG GCCCGCCGGC TCGGTTGGGG CTTCCGCTGC GGCTGCGGCT GCTGCTGCTG 120 CTCTGGGCGG CCGCCGCCTC CGCCCAGGGC CACCTAAGGA GCGGACCCCG CATCTTCGCC GTCTGGAAAG GCCATGTAGG GCAGGACCGG GTGGACTTTG GCCAGACTGA GCCGCACACG 240 GTGCTTTTCC ACGAGCCAGG CAGCTCCTCT GTGTGGGTGG GAGGACGTGG CAAGGTCTAC 300 CTCTTTGACT TCCCCGAGGG CAAGAACGCA TCTGTGCGCA CGGTGAATAT CGGCTCCACA 360 AAGGGGTCCT GTCTGGATAA GCGGGACTGC GAGAACTACA TCACTCTCCT GGAGAGGCGG 420 AGTGAGGGGC TGCTGGCCTG TGGCACCAAC GCCCGGCACC CCAGCTGCTG GAACCTGGTG 480 AATGGCACTG TGGTGCCACT TGGCGAGATG AGAGGCTACG CCCCCTTCAG CCCGGACGAG 540 AACTCCCTGG TTCTGTTTGA AGGGGACGAG GTGTATTCCA CCATCCGGAA GCAGGAATAC 600 AATGGGAAGA TCCCTCGGTT CCGCCGCATC CGGGGCGAGA GTGAGCTGTA CACCAGTGAT 660 ACTGTCATGC AGAACCCACA GTTCATCAAA GCCACCATCG TGCACCAAGA CCAGGCTTAC 720 GATGACAAGA TCTACTACTT CTTCCGAGAG GACAATCCTG ACAAGAATCC TGAGGCTCCT 780 CTCAATGTGT CCCGTGTGGC CCAGTTGTGC AGGGGGGACC AGGGTGGGGA AAGTTCACTG 840 TCAGTCTCCA AGTGGAACAC TTTTCTGAAA GCCATGCTGG TATGCAGTGA TGCTGCCACC 900 AACAAGAACT TCAACAGGCT GCAAGACGTC TTCCTGCTCC CTGACCCCAG CGGCCAGTGG 960 AGGGACACCA GGGTCTATGG TGTTTTCTCC AACCCCTGGA ACTACTCAGC CGTCTGTGTG 1020 TATTCCCTCG GTGACATTGA CAAGGTCTTC CGTACCTCCT CACTCAAGGG CTACCACTCA 1080 AGCCTTCCCA ACCCGCGGCC TGGCAAGTGC CTCCCAGACC AGCAGCCGAT ACCCACAGAG 1140 ACCTTCCAGG TGGCTGACCG TCACCCAGAG GTGGCGCAGA GGGTGGAGCC CATGGGGCCT 1200 CTGAAGACGC CATTGTTCCA CTCTAAATAC CACTACCAGA AAGTGGCCGT TCACCGCATG 1260 1320 CAAGCCAGCC ACGGGGAGAC CTTTCATGTG CTTTACCTAA CTACAGACAG GGGCACTATC CACAGGTGG TGGAACCGGG GGAGCAGGAG CACAGCTTCG CCTTCAACAT CATGGAGATC 1380 CAGCCCTTCC GCCGCGCGC TGCCATCCAG ACCATGTCGC TGGATGCTGA GCGGAGGAAG 1440 CTGTATGTGA GCTCCCAGTG GGAGGTGAGC CAGGTGCCCC TGGACCTGTG TGAGGTCTAT 1500 1560 GGCGGGGGCT GCCACGGTTG CCTCATGTCC CGAGACCCCT ACTGCGGCTG GGACCAGGGC CGCTGCATCT CCATCTACAG CTCCGAACGG TCAGTGCTGC AATCCATTAA TCCAGCCGAG 1620 CCACACAGG AGTGTCCCAA CCCCAAACCA GACAAGGCCC CACTGCAGAA GGTTTCCCTG 1680 GCCCCAAACT CTCGCTACTA CCTGAGCTGC CCCATGGAAT CCCGCCACGC CACCTACTCA 1740

TGGCGCCACA AGGAGAACGT GGAGCAGAGC TGCGAACCTG GTCACCAGAG CCCCAACTGC 1800 ATCCTGTTCA TCGAGAACCT CACGGCGCAG CAGTACGGCC ACTACTTCTG CGAGGCCCAG 1860 GAGGGCTCCT ACTTCCGCGA GGCTCAGCAC TGGCAGCTGC TGCCCGAGGA CGGCATCATG 1920 GCCGAGCACC TGCTGGGTCA TGCCTGTGCC CTGGCTGCCT CCCTCTGGCT GGGGGTGCTG 1980 CCCACACTCA CTCTTGGCTT GCTGGTCCAC TAGGGCCTCC CGAGGCTGGG CATGCCTCAG 2040 GCTTCTGCAG CCCAGGGCAC TAGAACGTCT CACACTCAGA GCCGGCTGGC CCGGGAGCTC 2100 CTTGCCTGCC ACTTCTTCCA GGGGACAGAA TAACCCAGTG GAGGATGCCA GGCCTGGAGA 2160 CGTCCAGCCG CAGGCGGCTG CTGGGCCCCA GGTGGCGCAC GGATGGTGAG GGGCTGAGAA 2220 TGAGGGCACC GACTGTGAAG CTGGGGCATC GATGACCCAA GACTTTATCT TCTGGAAAAT 2280 ATTTTCAGA CTCCTCAAAC TTGACTAAAT GCAGCGATGC TCCCAGCCCA AGAGCCCATG 2340 GGTCGGGGAG TGGGTTTGGA TAGGAGAGCT GGGACTCCAT CTCGACCCTG GGGCTGAGGC 2400 CTGAGTCCTT CTGGACTCTT GGTACCCACA TTGCCTCCTT CCCCTCCCTC TCTCATGGCT 2460 GGGTGGCTGG TGTTCCTGAA GACCCAGGGC TACCCTCTGT CCAGCCCTGT CCTCTGCAGC 2520 TCCCTCTCTG GTCCTGGGTC CCACAGGACA GCCGCCTTGC ATGTTTATTG AAGGATGTTT 2580 2636

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(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1195 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CGGGGCTGCG	GGATGACGCC	TCCTCCTCCC	GGACGTGCCG	CCCCCAGCGC	ACCGCGCGCC	60
CGCGTCCTCA	GCCTGCCGGC	TCGGTTCGGG	CTCCCGCTGC	GGCTGCGGCT	TCTGCTGGTG	120
TTCTGGGTGG	CCGCCGCCTC	CGCCCAAGGC	CACTCGAGGA	GCGGACCCCG	CATCTCCGCC	180
GTCTGGAAAG	GGCAGGACCA	TGTGGACTTT	AGCCAGCCTG	AGCCACACAC	CGTGCTTTTC	240
CATGAGCCGG	GCAGCTTCTC	TGTCTGGGTG	GGTGGACGTG	GCAAGGTCTA	CCACTTCAAC	300
TTCCCCGAGG	GCAAGAATGC	CTCTGTGCGC	ACGGTGAACA	TCGGCTCCAC	AAAGGGGTCC	360

TGTCAGGACA	AACAGGACTG-	TGGGAATTAC	ATCACTCTTC	TAGAAAGGCG	GGGTAATGGG	4.20
CTGCTGGTCT	GTGGCACCAA	TGCCCGGAAG	CCCAGCTGCT	GGAACTTGGT	GAATGACAGT	.4'80
GTGGTGATGT	CACTTGGTGA	GATGAAAGGC	TATGCCCCCT	TCAGCCCGGA	TGAGAACTCC	540
CTGGTTCTGT	TTGAAGGAGA	TGAAGTGTAC	TCTACCATCC	GGAAGCAGGA	ATACAACGGG	600
AAGATCCCTC	GGTTTCGACG	CATTCGGGGC	GAGAGTGAAC	TGTACACAAG	TGATACAGTC	660
ATGCAGAACC	CACAGTTCAT	CAAGGCCACC	ATTGTGCACC	AAGACCAAGC	CTATGATGAT	/ 2 720
AAGATCTACT	ACTTCTTCCG	AGAAGACAAC	CCTGACAAGA	ACCCCGAGGC	TCCTCTCAAT	7.80
GTGTCCCGAG	TAGCCCAGTT	GTGCAGGGGG	GACCAGGGTG	GTGAGAGTTC	GTTGTCTGTC	840
TCCAAGTGGA	ACACCTTCCT	GAAAGCCATG	TTGGTCTGCA	GCGATGCAGC	CACCAACAGG	:900
AACTTCAATC	GGCTGCAAGA	TGTCTTCCTG	CTCCCTGACC	CCAGTGGCCA	GTGGAGAGAT	960
ACCAGGGTCT	ATGGCGTTTT	CTCCAACCCC	TGGAACTACT	CAGCTGTCTG	CGTGTATTCG	1020
CTTGGTGACA	TTGACAGAGT	CTTCCGTACC	TCATCGCTCA	AAGGCTACCA	CATGGGCCTT	1080
TCCAACCCTC	GACCTGGCAT	GTGCCTCCCA	AAAAAGCAGC	CCATACCCAC	AGAAACCTTC	1140
CAGGTAGCTG	ATAGTCACCC	AGAGGTGGCT	CAGAGGGTGG	AACCTATGGG	GCCCC	1195

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 666 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: n/a
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: amino acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Met Thr Pro Pro Pro Pro Gly Arg Ala Ala Pro Ser Ala Pro Arg Ala 1 5 10 15

Arg Val Pro Gly Pro Pro Ala Arg Leu Gly Leu Pro Leu Arg Leu Arg 20 25 30

Leu Leu Leu Leu Trp Ala Ala Ala Ser Ala Gln Gly His Leu
35 40 45

Arg Ser Gly Pro Arg Ile Phe Ala Val Trp Lys Gly His Val Gly Gln 50 55 60

Asp Arg Val Asp Phe Gly Gln Thr Glu Pro His Thr Val Leu Phe His

Glu Pro Gly Ser Ser Ser Val Trp Val Gly Gly Arg Gly Lys Val Tyr 85 90 95

65

Leu Phe Asp Phe Pro Glu Gly Lys Asn Ala Ser Val Arg Thr Val Asn 100 105 110

The Gly Ser Thr Lys Gly Ser Cys Leu Asp Lys Arg Asp Cys Glu Asn 115 120 125

Tyr Ile Thr Leu Leu Glu Arg Arg Ser Glu Gly Leu Leu Ala Cys Gly
130
135

Thr Asn Ala Arg His Pro Ser Cys Trp Asn Leu Val Asn Gly Thr Val 145 150 155 160

Val Pro Leu Gly Glu Met Arg Gly Tyr Ala Pro Phe Ser Pro Asp Glu 175

Asn Ser Leu Val Leu Phe Glu Gly Asp Glu Val Tyr Ser Thr Ile Arg

180 185 190

Lys Gln Glu Tyr Asn Gly Lys Ile Pro Arg Phe Arg Arg Ile Arg Gly (**) 195 200 205

Glu Ser Glu Leu Tyr Thr Ser Asp Thr Val Met Gln Asn Pro Gln Phe 210 215 220

Ile Lys Ala Thr Ile Val His Gln Asp Gln Ala Tyr Asp Asp Lys Ile 225 230 235 240

Tyr Tyr Phe Phe Arg Glu Asp Asn Pro Asp Lys Asn Pro Glu Ala Pro 245 250 255

Leu Asn Val Ser Arg Val Ala Gln Leu Cys Arg Gly Asp Gln Gly Gly
260 265 270

Glu Ser Ser Leu Ser Val Ser Lys Trp Asn Thr Phe Leu Lys Ala Met 275 280 285

Leu Val Cys Ser Asp Ala Ala Thr Asn Lys Asn Phe Asn Arg Leu Gln 290 295 300

Asp Val Phe Leu Leu Pro Asp Pro Ser Gly Gln Trp Arg Asp Thr Arg 305 310 315 320

Val Tyr Gly Val Phe Ser Asn Pro Trp Asn Tyr Ser Ala Val Cys Val 325 330 335

Tyr Ser Leu Gly Asp Ile Asp Lys Val Phe Arg Thr Ser Ser Leu Lys
340 345 350

Gly Tyr His Ser Ser Leu Pro Asn Pro Arg Pro Gly Lys Cys Leu Pro 355 360 365

Asp Gln Gln Pro Ile Pro Thr Glu Thr Phe Gln Val Ala Asp Arg His

Pro 385	Glu	Val	Ala	Gln	Arg 390	Val	Glu	Pro	Met	Gly 395	Pro	Leu	Lys	Thr	Pro 400
Leu	Phe	His	Ser.	Lys 405	_	His	Tyr	Gln	Lys 410	Val	Ala	Val	His	Arg: 415	Met
Gln	Ala	Ser	His 420	Gly;	Glu	Thr	Phe	His 425	.Val	Leu	Tyr,	Leu	Thr: 430	Thr	Asp
Arg	Gly	Thr 435	Ile	His	Lys	Val	Val 440	Glu.	Pro	Gly	Glu	Gln 445	Glu	His	Ser,
Phe	Ala 450	Phe	Asn	Ile	Met	Glu 455	Ile	Gln	Pro	Phe	Arg 460	Arg	Ala	Ala.	Ala
'Ile '465	Gln	Thr	Met	Ser	Leu 470	Asp	Ala	Glu	Arg	Arg 475	ГЛЗ	Leu	Tyr	Val	Ser 480
Ser	Gln	Trp	Glu	Val 485		Gln	Val	Pro	Leu 490	Asp	Leu	Сув	Glu	Val 495	Tyr
Gly	Gly	Gly	Сув 500	His	Gly	Суз	Leu	Met 505	Ser	Arg	Asp	Pro	Tyr 510	Cys	Gly
Trp	Asp	Gln 515	Gly	Arg	Суз	Ile	Ser 520	Ile	, Tyr:	Ser		Glu 525	Arg	Ser	'Val ₃
Leu	Gln 530		Ile	Asn	Pro	Ala 535	Glu	Pro	His	ГÀЗ	Glu 540	Cys	Pro	Asn	Pro
Lys 545		Asp	Lys	Ala	Pro 550	Leu	Gln,	Lys	·Val	Ser 555		Ala	Pro	Asn	Ser 560
Arg	Tyr	Tyr	Leu	Ser 565	_	Pro	Met	Glu	Ser 570	Arg	His	Ala	Thr	Tyr 575	Ser
Trp	Arg	His	Lys 580		Asn	Val	Glu	Gln 585		Cys	Glu	Pro	Gly 590	His	Gln
Ser	Pro	Asn 595		υIle	Leu		1le	Glu	Asn	Leu	_{::} Thr	Ala 605		Gln	Tyr
Gly	His 610		Phe	Cys	Glu	Ala ,615		Glu	Gly	Ser	620		Arg	Glu	Ala
Gln 625		Trp	Gln	Leu	Leu 630		Glu	Asp	Gly	11e 635		Ala	Glu	His	Leu 640
Leu	Gly	His	Ala	Cys 645		Leu	Ala	Ala	Ser 650		Trp	Leu	Gly	Val 655	Leu
Pro	Thr	Leu	Thr		Gly	Leu	Leu	Val		b,					• •

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 394 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: n/a
 - (D) TOPOLOGY: linear at a
- (ii) MOLECULE TYPE: amino acid
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

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Met Thr Pro Pro Pro Pro Gly Arg Ala Pro Ser Ala Pro Arg Ala 1 1 15

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- Arg Val Leu Ser Leu Pro Ala Arg Phe Gly Leu Pro Leu Arg Leu Arg 20 25 30
- Leu Leu Val Phe Trp Val Ala Ala Ala Ser Ala Gln Gly His Ser
 35 40 45
- Arg Ser Gly Pro Arg Ile Ser Ala Val Trp Lys Gly Gln Asp His Val 50 55 60
- Asp Phe Ser Gln Pro Glu Pro His Thr Val Leu Phe His Glu Pro Gly 65 70 75 80
- Ser Phe Ser Val Trp Val Gly Gly Arg Gly Lys Val Tyr His Phe Ash (1) 85 90 95
- Phe Pro Glu Gly Lys Asn Ala Ser Val Arg Thr Val Asn Ile Gly Ser 100 105 110
- Thr Lys Gly Ser Cys Gln Asp Lys Gln Asp Cys Gly Asn Tyr Ile Thr 115 120 125
- Leu Leu Glu Arg Arg Gly Asn Gly Leu Leu Val Cys Gly Thr Asn Ala 130 135 140
- Arg Lys Pro Ser Cys Trp Asn Leu Val Asn Asp Ser Val Val Met Ser 145 150 155 160

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- Leu Gly Glu Met Lys Gly Tyr Ala Pro Phe Ser Pro Asp Glu Asn Ser 165 170 175
- Leu Val Leu Phe Glu Gly Asp Glu Val Tyr Ser Thr Ile Arg Lys Gln 180 185 190
- Glu Tyr Asn Gly Lys Ile Pro Arg Phe Arg Arg Ile Arg Gly Glu Ser × 195 200 205
- Glu Leu Tyr Thr Ser Asp Thr Val Met Gln Asn Pro Gln Phe Ile Lys 210 215 220
- Ala Thr Ile Val His Gln Asp Gln Ala Tyr Asp Asp Lys Ile Tyr Tyr

id by contrast

Phe Phe Arg Glu Asp Asn Pro Asp Lys Asn Pro Glu Ala Pro Leu Asn 245 250 255

Val Ser Arg Val Ala Gln Leu Cys Arg Gly Asp Gln Gly Glu Ser 260 265 270

Ser Leu Ser Val Ser Lys Trp Asn Thr Phe Leu Lys Ala Met Leu Val 275 280 285

Cys Ser Asp Ala Ala Thr Asn Arg Asn Phe Asn Arg Leu Gln Asp Val 290 295 300

Phe Leu Leu Pro Asp Pro Ser Gly Gln Trp Arg Asp Thr Arg Val Tyr 305 310 315 320

Gly Val Phe Ser Asn Pro Trp Asn Tyr Ser Ala Val Cys Val Tyr Ser 325

Leu Gly Asp Ile Asp Arg Val Phe Arg Thr Ser Ser Leu Lys Gly Tyr 340 345 350

His Met Gly Leu Ser Asn Pro Arg Pro Gly Met Cys Leu Pro Lys Lys 355

Gln Pro Ile Pro Thr Glu Thr Phe Gln Val Ala Asp Ser His Pro Glu 370 375 380

Val Ala Gln Arg Val Glu Pro Met Gly Pro 385 390

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

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ACTCACTATA GGGCTCGAGC GGC

23

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

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	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:6:	English Company	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGCC	GCACAC GGTGCTTTTC	*	and the second s	20
, (<u>2</u>)	INFORMATION FOR SEQ ID NO:7:			g g
•	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single		v v v v v v v v v v v v v v v v v v v	tiana net 91. G
	(D) TOPOLOGY: linear		ere garte i zaktorie	192. (19.1)
	(ii) MOLECULE TYPE: DNA (genomic)			
			48 - 2010 (88)	e e e
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:7:		
GCAC	CAGATGC GTTCTTGCCC			20
(2)	INFORMATION FOR SEQ ID NO:8:			. 1
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 			
	(ii) MOLECULE TYPE: DNA (genomic)			
				128
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:8:		
ACC	ATAGACC CTGGTGTCCC	:	ing taken as in a series as a little of the series of the	20
(2)	INFORMATION FOR SEQ ID NO:9:		: · · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , ,
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear		in en	
	(ii) MOLECULE TYPE: DNA (genomic)			

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

GCAGTGATGC TGCCACCAAC

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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

CCAGACCATG TCGCTGGATG

20

- (2) INFORMATION FOR SEQ ID NO:11:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

ACATGAGGCA ACCGTGGCAG

20

- (2) INFORMATION FOR SEQ ID NO:12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

CCATCCTAAT ACGACTCACT ATAGGGC

27

- (2) INFORMATION FOR SEQ ID NO:13:
 - (i) SEQUENCE CHARACTERISTICS:

	(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear		in the second	
	(ii) MOLECULE TYPE: DNA (genomic)	., .,		
			en e	
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:13:	The state of the work of the state of the st	
AGG'	PAGACCT TGCCACGTCC		20	
(2)	INFORMATION FOR SEQ ID NO:14:			
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 23 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear		area está le esta la	. "
	(ii) MOLECULE TYPE: DNA (genomic)	S. S. J. Santa		• '
	(21) Holdes 2 1112. Dist (genomic)		Andrew State of the State of th	
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:14:		*
GAA	CTTCAAC AGGCTGCAAG ACG	•	23	
(2)	INFORMATION FOR SEQ ID NO:15:			
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear			·
	(ii) MOLECULE TYPE: DNA (genomic)			
:			en de la composition de la composition La composition de la	
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:15:		
ATG	TGAGCG GAGGAAGCTG		20	
(2)	INFORMATION FOR SEQ ID NO:16:		: :	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	· · · · · · · · · · · · · · · · · · ·		
	(ii) MOLECULE TYPE: DNA (genomic)	•		

CCGCCATACA CCTCACACAG (2) INFORMATION FOR SEQ ID NO:17: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)	
(2) INFORMATION FOR SEQ ID NO:17: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)	
(A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)	
(D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)	
that it is a second of the sec	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
CTGGAAGCTT TCTGTGGGTA TCGGCTGC	28
(2) INFORMATION FOR SEQ ID NO:18:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 25 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	-
(ii) MOLECULE TYPE: DNA (genomic)	
	-
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
TTTGGATCCC TGGTTCTGTT TGAAG	25
(2) INFORMATION FOR SEQ ID NO:19:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

TTCTAGAATT CAGCGGCCGC TTTTTTTTT TTTTTTTTT T	TTTTTTTT	50	
(2) INFORMATION FOR SEQ ID NO:20:	•	· · · · · · · · · · · · · · · · · · ·	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 27 base pairs	,	· · · ·	
(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	٠.		
(ii) MOLECULE TYPE: DNA (genomic)	t for the last of the first of	#2.71	
	•	1 1 2 2 1	: * * *.
	e e e e e e e e e e e e e e e e e e e		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	2	The William St.	
GGGGAAAGTT CACTGTCAGT CTCCAAG		27	
(2) INFORMATION FOR SEQ ID NO:21:			
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 26 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	The survey of the		• 1
(ii) MOLECULE TYPE: DNA (genomic)			
	•		1. 1 1. y
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	*		
GGGAATACAC ACAGACGGCT GAGTAG		.26	
(2) INFORMATION FOR SEQ ID NO:22:			
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 22 base pairs(B) TYPE: nucleic acid	San Park San		:
(C) STRANDEDNESS: single(D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: DNA (genomic)			
			**
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,
AGCAAGTTCA GCCTGGTTAA GT	· · · · · · · · · · · · · · · · · · ·	22	
(2) INFORMATION FOR SEQ ID NO:23:		·	

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 21 base pairs

	(B) TYPE: nucleic acid;(C) STRANDEDNESS: single(D) TOPOLOGY: linear	. :	•						
	(ii) MOLECULE TYPE: DNA (genomic)						0		
			٠		•	٠	· · · · · · · · · · · · · · · · · · · ·	t.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:23:							
TTAT	GAGTAT TTCTTCCAGG G		•				:	21	
(2)	INFORMATION FOR SEQ ID NO:24:								
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	a da	.73	₹	in.		100 A		٠,
	(ii) MOLECULE TYPE: DNA (genomic)								
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:24:	,						
CCAT	TAATCC AGCCGAGCCA CACAAG			:		÷.	•	26	
(2)	INFORMATION FOR SEQ ID NO:25:								
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 		\$ -4 -2 -2						
	(ii) MOLECULE TYPE: DNA (genomic)			٠.			:		
				년 의 . 년			i grajani i		
	(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:25:	-						
CAT	CTACAGC TCCGAACGGT CAGTG							25	
(2)	INFORMATION FOR SEQ ID NO:26:								
•	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear		·····		-94 Audit \$ 414 A.	 -		· · · · · · · · · · · · · · · · ·	e e e e e e e e e e e e e e e e e e e

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
CAGCGGAAGC CCCAACCGAG	20°
(2) INFORMATION FOR SEQ ID NO:27:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	A viteral over the first of the second of the second over the
(ii) MOLECULE TYPE: DNA (genomic)	por capación de la company de la company La companyación de la companyación
	Sign of the Capacita
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	 And TSO CONTROL (Mass Constitution) And Constitution (Mass Constitution)
GGGATGACGC CTCCTCCGCC CGG	23
(2) INFORMATION FOR SEQ ID NO:28:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
	$\epsilon_{ij} = \epsilon_{ij} \epsilon_{ij$
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	And the Application of the Appli
AAGCTTCACG TGGACCAGCA AGCCAAGAGT G	31 2007 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120
(2) INFORMATION FOR SEQ ID NO:29:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 25 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

AAGCTTTTTC CGTCCTTCCG TCCGG

	(Control of the Control of the Contr
(2) INFORMATION FOR SEQ ID NO:30:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:30:
ATGGTGAGCA AGGGCGAGGA GCTG	2 4
(2) INFORMATION FOR SEQ ID NO:31:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID	NO:31:
CTTGTACAGC TCGTCCATGC CGAG	24
(2) INFORMATION FOR SEQ ID NO:32:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 25 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ II	D NO:32:
GGGTGGTGAG AGTTCGTTGT CTGTC	25
(2) INFORMATION FOR SEQ ID NO:33:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 25 base pairs(B) TYPE: nucleic acid	

	•					•	
	(mil) gr	COURTNAIN DRAG				·	
	(X1) SI	QUENCE DESC	RIPTION: SE	SQ ID NO:34:		*****	
AGC	CGCCCAAT	ACGCAAACCG	CCTCTCCCCG	CGCGTTGGCC	GATTCATTAA	TGCAGCTGGC	60
ACG	BACAGGTT	TCCCGACTGG	AAAGCGGGCA	GTGAGCGCAA	CGCAATTAAT	GTGAGTTAGC	120
TCF	ACTCATTA	GGCACCCCAG	GCTTTACACT	TTATGCTTCC	GGCTCGTATG	TTGTGTGGAA	180
ТŤС	STGAGCGG	ATAACAATTT	CACACAGGAA	ACAGCTATGA	CCATGATTAC	GCCAAGCTTC	240
ACC	GTGGACCA	GCAAGCCAAG	AGTGAGTGTG	GGCAGCACCC	CCAGCCAGAG	GGAGGCAGCC	300
AGO	GCACAGG	CATGACCCAG	CAGGTGCTCG	GCCATGATGC	CGTCCTCGGG	CAGCAGCTGC	360
CAC	GTGCTGAG	CCTCGCGGAA	GTAGGAGCCC		CGCAGAAGTA		420
TG				ATGCAGTTGG	GGCTCTGGTG	ACCAGGTTCG	480
CAC		CCACGTTCTC		CATGAGTAGG	TGGCGTGGCG		540
GG	GCAGCTCA			•	CCTTCTGCAG	TGGGGCCTTG	600
TC	IGGTTTGG		CTCCTTGTGT	GGCTCGGCTG	GATTAATGGA	TTGCAGCACT	660
GA	CCGTTCGG			CGGCCCTGGT	CCCAGCCGCA	GTAGGGGTCT	720
CG	GGACATGA	GGCAACCGTG	GCAGCCCCCG	CCATAGACCT	CACACAGGTC	CAGGGGCACC	780
TG	GCTCACCT	CCCACTGGGA	GCTCACATAC	AGCTTCCTCC	GCTCAGCATC	CAGCGACATG	840
GT	CTGGATGG	CAGCCGCGCG	GCGGAAGGGC	TGGATCTCCA	TGATGTTGAA	GGCGAAGCTG	900

(C) STRANDEDNESS: single

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: nucleic acid

(2) INFORMATION FOR SEQ ID NO:34:

(A) LENGTH: 5856 base pairs

(ii) MOLECULE TYPE: DNA (genomic)

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

GAGCGATGAG GTACGGAAGA CTCTG

TCG	GTCGCCG	GGCGCGGTAT	TCTCAGAATG	ACTTGGTTGA	GTACTCACCA	GTCACAGAAA	4380
AGC	ATCTTAC	GGATGGCATG	ACAGTAAGAG	AATTATGCAG	TGCTGCCATA	ACCATGAGTG	4440
ATA	ACACTGC	GGCCAACTTA	CTTCTGACAA	CGATCGGAGG	ACCGAAGGAG	CTAACCGCTT	4500
TTT	TGCACAA	CATGGGGGAT	CATGTAACTC	GCCTTGATCG	TTGGGAACCG	GAGCTGAATG	4560
AAG	CCATACC	AAACGACGAG	AGTGACACCA	CGATGCCTGT	AGCAATGCCA	ACAACGTTGC	4620
GCA	AACTATT	AACTGGCGAA	СТАСТТАСТС	TAGCTTCCCG	GCAACAATTA	ATAGACTGGA	4680
TGG	AGGCGGA	TAAAGTTGCA	GGACCACTTC	TGCGCTCGGC	CCTTCCGGCT	GGCTGGTTTA	4740
TTG	CTGATAA	ATCTGGAGCC	GGTGAGCGTG	GGTCTCGCGG	TATCATTGCA	GCACTGGGGC	4800
CAG	ATGGTAA	GCCCTCCCGT	ATCGTAGTTA	TCTACACGAC	GGGGAGTCAG	GCAACTATGG	4860
ATG	BAACGAAA	TAGACAGATC	GCTGAGATAG	GTGCCTCACT	GATTAAGCAT	TGGTAACTGT	4920
CAG	ACCAAGT	TTACTCATAT	ATACTTTAGA	TTGATTTAAA	ACTTCATTTT	TAATTTAAAA	4980
GGA	ATCTAGGT	GAAGATCCTT	TTTGATAATC	TCATGACCAA	AATCCCTTAA	CGTGAGTTTT	5040
CGI	TCCACTG	AGCGTCAGAC	CCCGTAGAAA	AGATCAAAGG	ATCTTCTTGA	GATCCTTTTT	5100
TTC	CTGCGCGT	AATCTGCTGC	TTGCAAACAA	AAAAACCACC	GCTACCAGCG	GTGGTTTGTT	5160
TGO	CCGGATCA	AGAGCTACCA	ACTCTTTTC	CGAAGGTAAC	TGGCTTCAGC	AGAGCGCAGA	5220
TAC	CCAAATAC	TGTCCTTCTA	GTGTAGCCGT	AGTTAGGCCA	CCACTTCAAG	AACTCTGTAG	5280
CAC	CCGCCTAC	ATACCTCGCT	CTGCTAATCC	TGTTACCAGT	GGCTGCTGCC	AGTGGCGATA	5340
AG	rcgtgtct	TACCGGGTTG	GACTCAAGAC	GATAGTTACC	GGATAAGGCG	CAGCGGTCGG	5400
GC"	rgaacggg	GGGTTCGTGC	ACACAGCCCA	GCTTGGAGCG	AACGACCTAC	ACCGAACTGA	5460
GA.	racctaca	GCGTGAGCAT	TGAGAAAGCG	CCACGCTTCC	CGAAGGGAGA	AAGGCGGACA	5520
GG:	ratccgg't	· AAGCGGCAGG	GTCGGAACAG	GAGAGCGCAC	GAGGGAGCTT	CCAGGGGGAA	5580
AC	GCCTGGTA	TCTTTATAGT	CCTGTCGGGT	TTCGCCACCT	CTGACTTGAG	CGTCGATTTT	5640
TG				GGAAAAACGC		GCCTTTTTAC	5700
GG'	TCCTGGC		CCTTTTGCTC			TCCCCTGATT	5760
CT	GTGGATAA			GAGCTGATAC	CGCTCGCCGC	AGCCGAACGA	5820
						•	5856

(2) INFORMATION FOR SEQ ID NO:35:

⁽i) SEQUENCE CHARACTERISTICS:

⁽A) LENGTH: 7475 base:pairs

⁽B) TYPE: nucleic acid

(C) STRANDEDNESS: single

%. *

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQUENCE: 35:

GACGGATCGG	GAGATCTCCC	GATECCCTAT	GGTCGACTCT	CAGTACAATC	TGCTCTGATG	600
CCGCATAGTT	AAGCCAGTAT	CTGCTCCCTG	CTTGTGTGTT	GGAGGTCGCT	GAGTAGTGCG	120
CGAGCAAAAT	TTAAGCTACA	ACAAGGCAAG	GCTTGACCGA	CAATTGCATG	AAGAATCTGC	180
TTAGGGTTAG	GCGTTTTGCG	CTGCTTCGCG	ATGTACGGGC	CAGATATACG	CGTTGACATT	240
GATTATTGAC	TAGTTATTAA	TAGTAATCAA	TTACGGGGTC	ATTAGTTCAT	AGCCCATATA	⁹⁶ 3.00 -
TGGAGTTCCG	CGTTACATAA	CTTACGGTAA	ATGGCCCGCC	TGGCTGACCG	CCCAACGACC	~ ⁽³ 360
CCCGCCCATT	GACGTCAATA	ATGACGTATG	TTCCCATAGT	AACGCCAATA	GGGACTTTCC	420
ATTGACGTCA	ATGGGTGGAC	TATTTACGGT	AAACTGCCCA	CTTGGCAGTA	CATCAAGTGT	480
ATCATATGCC	AAGTACGCCC	CCTATTGACG	TCAATGACGG	TAAATGGCCC	GCCTGGCATT	540
ATGCCCAGTA	CATGACCTTA	TGGGACTTTC	CTACTTGGCA	GTACATCTAC	GTATTAGTCA	600
TCGCTATTAC	CATGGTGATG	CGGTTTTGGC	AGTACATCAA	TGGGCGTGGA	TAGCGGTTTG	660
ACTCACGGGG	ATTTCCAAGT	CTCCACCCCA	TTGACGTCAA	TGGGAGTTTG	TTTTGGCACC	720
AAAATCAACG	GGACTTTCCA	AAATGTCGTA	ACAACTCCGC	CCCATTGACG:	CAAATGGGCG	780
GTAGGCGTGT	ACGGTGGGAG	GTCTATATAA	GCAGAGCTCT	CTGGCTAACT	AGAGAACCCA	840
CTGCTTACTG	GCTTATCGAA	ATTAATACGA	CTCACTATAG	GGAGACCCAA	GCTGGCTAGC	900
GTTTAAACGG	GCCCTCTAGA	CTCGAGCGGC	CGCCACTGTG	CTGGATATCT	GCAGAATTCG	960
GCTTGGGATG	ACGCCTCCTC	CGCCCGGACG	TGCCGCCCCC	AGCGCACCGC	GCGCCCGCGT	1020
CCCTGGCCCG	CCGGCTCGGT	TGGGGCTTCC	GCTGCGGCTG	CGGCTGCTGC	TGCTGCTCTG	1080
GGCGGCCGCC	GCCTCCGCCC	AGGGCCACCT	AAGGAGCGGA	CCCCGCATCT	TCGCCGTCTG	1140
GAAAGGCCAT	GTAGGGCAGG	ACCGGGTGGA	CTTTGGCCAG	ACTGAGCCGC	ACACGGTGCT	1200
TTTCCACGAG	CCAGGCAGCT	CCTCTGTGTG	GGTGGGAGGA	CGTGGCAAGG	TCTACCTCTT	1260
TGACTTCCCC	GAGGGCAAGA	ACGCATCTGT	GCGCACGGTG	AATATCGGCT	CCACAAAGGG	1320
GTCCTGTCTG	GATAAGCGGG	ACTGCGAGAA	CTACATCACT	CTCCTGGAGA	GGCGGAGTGA	1380
GGGGCTGCTG	GCCTGTGGCA	CCAACGCCCG	GCACCCCAGC	TGCTGGAACC	TGGTGAATGG	1440

TCCTTGACCC	TGGAAGGTGC	CACTCCCACT	GTCCTTTCCT	AATAAAATGA	GGAAATTGCA	3180
TCGCATTGTC	TGAGTAGGTG	TCATTCTATT	CTGGGGGGTG	GGGTGGGGCA	GGACAGCAAG	3240
GGGGAGGATT	GGGAAGACAA	TAGCAGGCAT	GCTGGGGATG	CGGTGGGCTC	TATGGCTTCT	3300
GAGGCGGAAA	GAACCAGCTG	GGGCTCTAGG	GGGTATCCCC	ACGCGCCCTG	TAGCGGCGCA	3360
TTAAGCGCGG	CGGGTGTGGT	GGTTACGCGC	AGCGTGACCG	CTACACTTGC	CAGCGCCCTA	734205 Programme
GCGCCCGCTC	CTTTCGCTTT	CTTCCCTTCC	TTTCTCGCCA	CGTTCGCCGG	CTTTCCCCGT	3480 ₩ 34,9440
CAAGCTCTAA	ATCGGGGCAT	CCCTTTAGGG	TTCCGATTTA	GTGCTTTACG	GCACCTCGAC	3540
CCCAAAAAAC	TTGATTAGGG	TGATGGTTCA	CGTAGTGGGC	CATCGCCCTG	ATAGACGGTT	3600 (43) (2.56)
TTTCGCCCTT	TGACGTTGGA	GTCCACGTTC	TTTAATAGTG	GACTCTTGTT	CCAAACTGGA	3660
ACAACACTCA	ACCCTATCTC	GGTCTATTCT	TTTGATTTAT	AAGGGATTTT	GGGGATTTCG	3720
GCCTATTGGT	TAAAAAATGA	GCTGATTTAA	CAAAAATŢTA	ACGCGAATTA	ATTCTGTGGA	3780
ATGTGTGTCA	GTTAGGGTGT	GGAAAGTCCC	CAGGCTCCCC	AGGCAGGCAG	AAGTATGCAA	3840
AGCATGCATC	TCAATTAGTC	AGCAACCAGG	TGTGGAAAGT	CCCCAGGCTC	CCCAGCAGGC	3900
AGAAGTATGC	AAAGCATGCA	TCTCAATTAG	TCAGCAACCA	TAGTCCCGCC	CCTAACTCCG	3960
CCCATCCCGC	CCCTAACTCC	GCCCAGTTCC	GCCCATTCTC	CGCCCCATGG	CTGACTAATT	4020
TTTTTTTTT	ATGCAGAGGC	CGAGGCCGCC	TCTGCCTCTG	AGCTATTCCA	GAAGTAGTGA	4080
GGAGGCTTTT	TTGGAGGCCT	AGGCTTTTGC	AAAAAGCTCC	CGGGAGCTTG	TATATCCATT	4140
TTCGGATCTG	ATCAAGAGAC	AGGATGAGGA	TCGTTTCGCA	TGATTGAACA	AGATGGATTG	∂ 4 200
CACGCAGGTT	CTCCGGCCGC	TTGGGTGGAG	AGGCTATTCG	GCTATGACTG	GGCACAACAG	4260
ACAATCGGCT	GCTCTGATGC	CGCCGTGTTC	CGGCTGTCAG	CGCAGGGGCG	CCCGGTTCTT	4320
TTTGTCAAGA	CCGACCTGTC	CGGTGCCCTG	AATGAACTGC	AGGACGAGGC	AGCGCGGCTA	4380
TCGTGGCTGG	CCACGACGGG	CGTTCCTTGC	GCAGCTGTGC	TCGACGTTGT	CACTGAAGCG	4440
GGAAGGGACT	GGCTGCTATT	GGGCGAAGTG	CCGGGGCAGG	ATCTCCTGTC	ATCTCACCTT	4500
GCTCCTGCCG	AGAAAGTATC	CATCATGGCT	GATGCAATGC	GGCGGCTGCA	TACGCTTGAT	4560 /
CCGGCTACCT	GCCCATTCGA	CCACCAAGCG	AAACATCGCA	TCGAGCGAGC	ACGTACTCGG	4620
ATGGAAGCCG	GTCTTGTCGA	TCAGGATGAT	CTGGACGAAG	AGCATCAGGG	GCTCGCGCCA	4680
GCCGAACTGT	TCGCCAGGCT	CAAGGCGCGC	ATGCCCGACG	GCGAGGATCT	CGTCGTGACC	4740
CATGGCGATG	CCTGCTTGCC	GAATATCATG	GTGGAAAATG	GCCGCTTTTC	TGGATTCATC	4800
GACTGTGGCC	GGCTGGGTGT	GGCGGACCGC	TATCAGGACA	TAGCGTTGGC	TACCCGTGAT	4860

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ATTGCTGAAG AGCTTGGCGG CGAATGGGCT GACCGCTTCC TCGTGCTTTA CGGTATCGCC 4920 GCTCCCGATT CGCAGCGCAT CGCCTTCTAT CGCCTTCTTG ACGAGTTCTT CTGAGCGGGA 4980 CTCTGGGGTT CGAAATGACC GACCAAGCGA CGCCCAACCT GCCATCACGA GATTTCGATT 5040 CCACCGCCGC CTTCTATGAA AGGTTGGGCT TCGGAATCGT TTTCCGGGAC GCCGGCTGGA 5100 TGATCCTCCA GCGCGGGGAT CTCATGCTGG AGTTCTTCGC CCACCCCAAC TTGTTTATTG 5160 CAGCTTATAA TGGTTACAAA TAAAGCAATA GCATCACAAA TTTCACAAAT AAAGCATTTT 5220 TTTCACTGCA TTCTAGTTGT GGTTTGTCCA AACTCATCAA TGTATCTTAT CATGTCTGTA 5280 TACCGTCGAC CTCTAGCTAG AGCTTGGCGT AATCATGGTC ATAGCTGTTT CCTGTGTGAA 5340 ATTGTTATCC GCTCACAATT CCACACAACA TACGAGCCGG AAGCATAAAG TGTAAAGCCT 5400 GGGGTGCCTA ATGAGTGAGC TAACTCACAT TAATTGCGTT GCGCTCACTG CCCGCTTTCC 5460 AGTCGGGAAA CCTGTCGTGC CAGCTGCATT AATGAATCGG CCAACGCGCG GGGAGAGGCG 5520 GTTTGCGTAT TGGGCGCTCT TCCGCTTCCT CGCTCACTGA CTCGCTGCGC TCGGTCGTTC 5580 GGCTGCGGCG AGCGGTATCA GCTCACTCAA AGGCGGTAAT ACGGTTATCC ACAGAATCAG 5640 GGGATAACGC AGGAAAGAAC ATGTGAGCAA AAGGCCAGCA AAAGGCCAGG AACCGTAAAA 5700 AGGCCGCGTT GCTGGCGTTT TTCCATAGGC TCCGCCCCC TGACGAGCAT CACAAAAATC 5760 GACGCTCAAG TCAGAGGTGG CGAAACCCGA CAGGACTATA AAGATACCAG GCGTTTCCCC 5820 CTGGAAGCTC CCTCGTGCGC TCTCCTGTTC CGACCCTGCC GCTTACCGGA TACCTGTCCG 5880 CCTTTCTCCC TTCGGGAGC GTGGCGCTTT CTCAATGCTC ACGCTGTAGG TATCTCAGTT 5940 CGGTGTAGGT CGTTCGCTCC AAGCTGGGCT GTGTGCACGA ACCCCCGTT CAGCCCGACC 6000 GCTGCGCCTT ATCCGGTAAC TATCGTCTTG AGTCCAACCC GGTAAGACAC GACTTATCGC 6060 CACTGGCAGC AGCCACTGGT AACAGGATTA GCAGAGCGAG GTATGTAGGC GGTGCTACAG 6120 AGTTCTTGAA GTGGTGGCCT AACTACGGCT ACACTAGAAG GACAGTATTT GGTATCTGCG 618.0 CTCTGCTGAA GCCAGTTACC TTCGGAAAAA GAGTTGGTAG CTCTTGATCC GGCAAACAA 6240 CCACCGCTGG TAGCGGTGGT TTTTTTGTTT GCAAGCAGCA GATTACGCGC AGAAAAAAAG 6300 GATCTCAAGA AGATCCTTTG ATCTTTTCTA CGGGGTCTGA CGCTCAGTGG AACGAAAACT 6360 CACGTTAAGG GATTTTGGTC ATGAGATTAT CAAAAAGGAT CTTCACCTAG ATCCTTTTAA 6420 ATTAAAAATG AAGTTTTAAA TCAATCTAAA GTATATATGA GTAAACTTGG TCTGACAGTT 6480 ACCAATGCTT AATCAGTGAG GCACCTATCT CAGCGATCTG TCTATTTCGT TCATCCATAG 6540

TTGCCTGACT CCCCGTCGTG TAGATAACTA CGATACGGGA GGGCTTACCA TCTGGCCCCA	6600
GTGCTGCAAT GATACCGCGA GACCCACGCT CACCGGCTCC AGATTTATCA GCAATAAACC	6660
AGCCAGCCGG AAGGGCCGAG CGCAGAAGTG GTCCTGCAAC TTTATCCGCC TCCATCCAGT	6720
CTATTAATTG TTGCCGGGAA GCTAGAGTAA GTAGTTCGCC AGTTAATAGT TTGCGCAACG	6780
TTGTTGCCAT TGCTACAGGC ATCGTGGTGT CACGCTCGTC GTTTGGTATG GCTTCATTCA	6840
GCTCCGGTTC CCAACGATCA AGGCGAGTTA CATGATCCCC CATGTTGTGC AAAAAAGCGG	6900
TTAGCTCCTT CGGTCCTCCG ATCGTTGTCA GAAGTAAGTT GGCCGCAGTG TTATCACTCA	6960
TGGTTATGGC AGCACTGCAT AATTCTCTTA CTGTCATGCC ATCCGTAAGA TGCTTTTCTG	7020
TGACTGGTGA GTACTCAACC AAGTCATTCT GAGAATAGTG TATGCGGCGA CCGAGTTGCT	7080
CTTGCCCGGC GTCAATACGG GATAATACCG CGCCACATAG CAGAACTTTA AAAGTGCTCA	7140
TCATTGGAAA ACGTTCTTCG GGGCGAAAAC TCTCAAGGAT CTTACCGCTG TTGAGATCCA	7200
GTTCGATGTA ACCCACTCGT GCACCCAACT GATCTTCAGC ATCTTTTACT TTCACCAGCG	7260
TTTCTGGGTG AGCAAAAACA GGAAGGCAAA ATGCCGCAAA AAAGGGAATA AGGGCGACAC	7320
GGAAATGTTG AATACTCATA CTCTTCCTTT TTCAATATTA TTGAAGCATT TATCAGGGTT	7380
ATTGTCTCAT GAGCGGATAC ATATTTGAAT GTATTTAGAA AAATAAACAA ATAGGGGTTC	7440
CGCGCACATT TCCCCGAAAA GTGCCACCTG ACGTC	7475

(2) INFORMATION FOR SEQ ID NO:36:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8192 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

. 60	TGCTCTGATG	CAGTACAATC	GGTCGACTCT	GATCCCCTAT	GAGATCTCCC	GACGGATCGG
120	GAGTAGTGCG	GGAGGTCGCT	CTTGTGTGTT	CTGCTCCCTG	AAGCCAGTAT	CCGCATAGTT
180	AAGAATCTGC	CAATTGCATG	GCTTGACCGA	ACAAGGCAAG	TTAAGCTACA	CGAGCAAAAT
240	CGTTGACATT	CAGATATACG	ATGTACGGGC	CTGCTTCGCG	GCGTTTTGCG	TTAGGGTTAG
300	AGCCCATATA	ATTAGTTCAT	TTACGGGGTC	TAGTAATCAA	TAGTTATTAA	GATTATTGAC

TGGAGTTCCG CGTTACATAA CTTACGGTAA ATGGCCCGCC TGGCTGACCG CCCAACGACC CCCGCCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCCAATA GGGACTTTCC . 57.7 ATTGACGTCA ATGGGTGGAC TATTTACGGT AAACTGCCCA CTTGGCAGTA CATCAAGTGT 480 . . ATCATATGCC AAGTACGCCC CCTATTGACG TCAATGACGG TAAATGGCCC GCCTGGCATT 540 The Born of the Late of the second section in ATGCCCAGTA CATGACCTTA TGGGACTTTC CTACTTGGCA GTACATCTAC GTATTAGTCA 600 《花文·黄红》的《正文体》的"陈文郎"的"大 TCGCTATTAC CATGGTGATG CGGTTTTGGC AGTACATCAA TGGGCGTGGA TAGCGGTTTG 660 200 ,5 ACTCACGGGG ATTTCCAAGT CTCCACCCA TTGACGTCAA TGGGAGTTTG TTTTGGCACC 720 "是一大大,""好想"的一点一样。 AAAATCAACG GGACTTTCCA AAATGTCGTA ACAACTCCGC CCCATTGACG CAAATGGGCG 780 Carry St. 18 1.1 GTAGGCGTGT ACGGTGGGAG GTCTATATAA GCAGAGCTCT CTGGCTAACT AGAGAACCCA 840 na lengen in comparation in the color was more for contract CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGC 900 GTTTAAACGG GCCCTCTAGA CTCGAGCGGC CGCCACTGTG CTGGATATCT GCAGAATTCG 960 化环烷基 化氯化二氯甲磺二二氯化 COLOMBA CONTRACTOR GCTTGGGATG ACGCCTCCTC CGCCCGGACG TGCCGCCCCC AGCGCACCGC GCGCCCGCGT 1020 $\mathcal{A}_{i,j} = \mathcal{A}_{i,j} \otimes \mathcal{A}_{j,j} \otimes \mathcal{A}_{j,j} \otimes \mathcal{A}_{j,j}$ 2 14 CCCTGGCCCG CCGGCTCGGT TGGGGCTTCC GCTGCGGCTG CGGCTGCTGC TGCTGCTCTG 1080 GGCGGCCGCC GCCTCCGCCC AGGGCCACCT AAGGAGCGGA CCCCGCATCT TCGCCGTCTG 1140 30 m GAAAGGCCAT GTAGGGCAGG ACCGGGTGGA CTTTGGCCAG ACTGAGCCGC ACACGGTGCT 1200 .. TTTCCACGAG CCAGGCAGCT CCTCTGTGTG GGTGGGAGGA CGTGGCAAGG TCTACCTCTT 1260 TGACTTCCCC GAGGGCAAGA ACGCATCTGT GCGCACGGTG AATATCGGCT CCACAAAGGG 1320 GTCCTGTCTG GATAAGCGGG ACTGCGAGAA CTACATCACT CTCCTGGAGA GGCGGAGTGA 1380 GGGGCTGCTG GCCTGTGGCA CCAACGCCCG GCACCCCAGC TGCTGGAACC TGGTGAATGG 1440 J. CACTGTGGTG CCACTTGGCG AGATGAGAGG CTACGCCCCC TTCAGCCCGG ACGAGAACTC 1500 (CCTGGTTCTG TTTGAAGGGG ACGAGGTGTA TTCCACCATC CGGAAGCAGG AATACAATGG 1560 THE POTENTIAL AREAS A PROPERTY TOUR CARD THE POTENTIAL SECTION. 100116 GAAGATCCCT CGGTTCCGCC GCATCCGGGG CGAGAGTGAG CTGTACACCA GTGATACTGT 1620 337 c CATGCAGAAC CCACAGTTCA TCAAAGCCAC CATCGTGCAC CAAGACCAGG CTTACGATGA 1680 . and the CAAGATCTAC TACTTCTTCC GAGAGGACAA TCCTGACAAG AATCCTGAGG CTCCTCTCAA 1740 100 TGTGTCCCGT GTGGCCCAGT TGTGCAGGGG GGACCAGGGT GGGGAAAGTT CACTGTCAGT 1800 1. 1 CTCCAAGTGG AACACTTTTC TGAAAGCCAT GCTGGTATGC AGTGATGCTG CCACCAACAA 1860 GAACTTCAAC AGGCTGCAAG ACGTCTTCCT GCTCCCTGAC CCCAGCGGCC AGTGGAGGGA 1920 CACCAGGGTC TATGGTGTTT TCTCCAACCC CTGGAACTAC TCAGCCGTCT GTGTGTATTC 1980 CCTCGGTGAC ATTGACAAGG TCTTCCGTAC CTCCTCACTC AAGGGCTACC ACTCAAGCCT 2040

TCCCAACCCG					CAGAGACCTT	2100	
CCAGGTGGCT	GACCGTCACC		GCAGAGGGTG	GAGCCCATGG		2160	
	TTCCACTCTA	AATACCACTA	CCAGAAAGTG	GCCGTTCACC		2220	
	GAGACCTTTC		CCTAACTACA	GACAGGGCA	CTATCCACAA	2280	
GGTGGTGGAA	CCGGGGGAGC	AGGAGCACAG	CTTCGCCTTC	AACATCATGG	AGATCCAGCC	2340	era
CTTCCGCCGC				GCTGAGCGGA		2400	
TGTGAGCTCC	_			CTGTGTGAGG		2460	1000
GGGCTGCCAC	GGTTGCCTCA	TGTCCCGAGA	CCCCTACTGC	GGCTGGGACC		2520	
CATCTCCATC	TACAGCTCCG	AACGGTCAGT	${\tt GCTGCAATCC}$	ATTAATCCAG	CCGAGCCACA	2580	
CAAGGAGTGT	CCCAACCCCA	AACCAGACAA	${\tt GGCCCCACTG}$	CAGAAGGTTT	CCCTGGCCCC	2640	
AAACTCTCGC	TACTACCTGA	GCTGCCCCAT	${\tt GGAATCCCGC}$	CACGCCACCT	ACTCATGGCG	2700	
CCACAAGGAG				CAGAGCCCCA		2760	a water to
GTTCATCGAG	AACCTCACGG	CGCAGCAGTA	CGGCCACTAC	TTCTGCGAGG	CCCAGGAGGG	2820	
CTCCTACTTC	CGCGAGGCTC	AGCACTGGCA	GCTGCTGCCC	GAGGACGGCA	TCATGGCCGA	2880	1. 2. /,
GCACCTGCTG	GGTCATGCCT	GTGCCCTGGC	TGCCTCCCTC	TGGCTGGGGG	TGCTGCCCAC	2940	, s ·
ACTCACTCTT	GGCTTGCTGG	TCCACATGGT	GAGCAAGGGC	GAGGAGCTGT	TCACCGGGGT	3000	
GGTGCCCATC	CTGGTCGAGC	TGGACGCGA		CACAAGTTCA		3060	, <u>(</u>)
CGAGGGCGAG	GGCGATGCCA			AAGTTCATCT		3120	
CAAGCTGCCC	GTGCCCTGGC	CCACCCTCGT	GACCACCCTG	ACCTACGGCG	TGCAGTGCTT	3180	
CAGCCGCTAC	CCCGACCACA				TGCCCGAAGG		* :
		TCTTCTTCAA	GGACGACGGC	AACTACAAGA	CCCGCGCCGA	3300	
	GAGGGCGACA		CCGCATCGAG	CTGAAGGGCA	TCGACTTCAA		•
GGAGGACGGC	AACATCCTGG	GGCACAAGCT	GGAGTACAAC		ACAACGTCTA	3420	
TATCATGGCC	GACAAGCAGA		CAAGGTGAAC		GCCACAACAT		
CGAGGACGGC	AGCGTGCAGC		CTACCAGCAG		TCGGCGACGG		e e e e e e e e e e e e e e e e e e e
CCCCGTGCTG				TCCGCCCTGA	GCAAAGACCC	3600	
CAACGAGAAG	CGCGATCACA	TGGTCCTGCT	GGAGTTCGTG	ACCGCCGCCG	GGATCACTCT	3660	•
CGGCATGGAC	GAGCTGTACA	AGGTGAAGCT	TGGGCCCGAA	CAAAAACTCA	TCTCAGAAGA	3720	

 $\frac{\mathbf{t}_{s}}{d} = I_{s} \cdot t$

GGATCTGAAT AGCGCCGTCG	ACCATCATCA	TCATCATCAT	TGAGTTTAAA	CCGCTGATCA	3780	
GCCTCGACTG TGCCTTCTAG	TTGCCAGCCA	TCTGTTGTTT	GCCCTCCCC	CGTGCCTTCC	3840	· .
TTGACCCTGG AAGGTGCCAC	TCCCACTGTC	CTTTCCTAAT	AAAATGAGGA	AATTGCATCG	3900	, . r r .
CATTGTCTGA GTAGGTGTCA	TTCTATTCTG	•	TGGGGCAGGA	CAGCAAGGGG	3.960	
GAGGATTGGG AAGACAATAG	CAGGCATGCT	GGGGATGCGG		GGCTTCTGAG	4020	
GCGGAAAGAA CCAGCTGGGG	CTCTAGGGG	TATCCCCACG			4080	
AGCGCGGCGG GTGTGGTGGT	TACGCGCAGC	GTGACCGCTA	CACTTGCCAG	CGCCCTAGCG	4140	and the second s
CCCGCTCCTT TCGCTTTCTT	CCCTTCCTTT	CTCGCCACGT	TCGCCGGCTT	TCCCCGTCAA	4200	
GCTCTAAATC GGGGCATCCC	TTTAGGGTTC		CTTTACGGCA	CCTCGACCCC	4260	
AAAAAACTTG ATTAGGGTGA	TGGTTCACGT	•		GACGGTTTTT	4320	
CGCCCTTTGA CGTTGGAGTC	CACGTTCTTT	AATAGTGGAC	TCTTGTTCCA	AACTGGAACA	4380	
ACACTCAACC CTATCTCGGT	CTATTCTTTT		GGATTTTGGG	GATTTCGGCC	4440	
TATTGGTTAA AAAATGAGCT	GATTTAACAA	AAATTTAACG	CGAATTAATT	CTGTGGAATG	4500	
TGTGTCAGTT AGGGTGTGGA	AAGTCCCCAG	GCTCCCCAGG	CAGGCAGAAG	TATGCAAAGC	4560	
ATGCATCTCA ATTAGTCAGC	AACCAGGTGT	GGAAAGTCCC	CAGGCTCCCC	AGCAGGCAGA	4620	
AGTATGCAAA GCATGCATCT	CAATTAGTCA	GCAACCATAG	TCCCGCCCCT	AACTCCGCCC	4680	
ATCCCGCCCC TAACTCCGCC	CAGTTCCGCC	CATTCTCCGC	CCCATGGCTG	ACTAATTTTT	4740	
TTTATTTATG CAGAGGCCGA	GGCCGCCTCT	GCCTCTGAGC	TATTCCAGAA	GTAGTGAGGA	4800	
GGCTTTTTTG GAGGCCTAGG	CTTTTGCAAA	AAGCTCCCGG	GAGCTTGTAT	ATCCATTTTC	4860	
GGATCTGATC AAGAGACAGG	ATGAGGATCG	TTTCGCATGA	TTGAACAAGA	TGGATTGCAC	4920	: '
GCAGGTTCTC CGGCCGCTTG				ACAACAGACA	4980	in the second of
ATCGGCTGCT CTGATGCCGC	CGTGTTCCGG	CTGTCAGCGC	AGGGGCGCCC		5040	e e e e e e e e e e e e e e e e e e e
GTCAAGACCG ACCTGTCCGG		and the second s	ACGAGGCAGC		5100	
TGGCTGGCCA CGACGGGCGT		GCTGTGCTCG		TGAAGCGGGA	5160	
AGGGACTGGC TGCTATTGGG	CGAAGTGCCG			TCACCTTGCT	5220	
CCTGCCGAGA AAGTATCCAT				GCTTGATCCG	5280	
GCTACCTGCC CATTCGACCA		•	•		5340	
GAAGCCGGTC TTGTCGATCA	GGATGATCTG	GACGAAGAGC	ATCAGGGGCT	CGCGCCAGCC	5400	·
GAACTGTTCG CCAGGCTCAA	GGCGCGCATG	CCCGACGGCG	AGGATCTCGT	CGTGACCCAT	5460	÷

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GGCGATGCCT	GCTTGCCGAA	TATCATGGTG	GAAAATGGCC	GCTTTTCTGG	ATTCATCGAC	5520	
TGTGGCCGGC	TGGGTGTGGC	GGACCGCTAT	CAGGACATAG	CGTTGGCTAC	CCGTGATATT	5580	
GCTGAAGAGC	TTGGCGGCGA	ATGGGCTGAC	CGCTTCCTCG	TGCTTTACGG	TATCGCCGCT	5640	•
CCCGATTCGC	AGCGCATCGC	CTTCTATCGC	CTTCTTGACG	AGTTCTTCTG	AGCGGGACTC	5700	
TGGGGTTCGA	AATGACCGAC	CAAGCGACGC	CCAACCTGCC	ATCACGAGAT	TTCGATTCCA	5760	
CCGCCGCCTT	CTATGAAAGG	TTGGGCTTCG	GAATCGTTTT	CCGGGACGCC	GGCTGGATGA	5820	AMIN'S SERVICES
TCCTCCAGCG	CGGGGATCTC	ATGCTGGAGT	TCTTCGCCCA	CCCCAACTTG	TTTATTGCAG	5880	5.58
CTTATAATGG	TTACAAATAA	AGCAATAGCA	TCACAAATTT	CACAAATAAA	GCATTTTTT	5940	7712 to 14
CACTGCATTC	TAGTTGTGGT	TTGTCCAAAC	TCATCAATGT	ATCTTATCAT	GTCTGTATAC	6000	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
CGTCGACCTC	TAGCTAGAGC	TTGGCGTAAT	CATGGTCATA	GCTGTTTCCT	GTGTGAAATT	6060	
GTTATCCGCT	CACAATTCCA	CACAACATAC	GAGCCGGAAG	CATAAAGTGT	AAAGCCTGGG	 6120	
GTGCCTAATG	AGTGAGCTAA	CTCACATTAA	TTGCGTTGCG	CTCACTGCCC	GCTTTCCAGT	6180	. 11
					AGAGGCGGTT	6240	• .
TGCGTATTGG	GCGCTCTTCC	GCTTCCTCGC	TCACTGACTC	GCTGCGCTCG	GTCGTTCGGC	6300	
TGCGGCGAGC	GGTATCAGCT	CACTCAAAGG	CGGTAATACG	GTTATCCACA	GAATCAGGGG	6360	
•					CGTAAAAAGG	6420	
	-			f	AAAAATCGAC	6480	1 2.
					TTTCCCCCTG	6540	
		e en			CTGTCCGCCT	6600	
					CTCAGTTCGG	6660	. *
				•	CCCGACCGCT	6720	
	in the Arm	4.11. W D'	1 P. S. 19 (1)	and the second			
	1.0	A	v	il JA			
•		•		•	GCTACAGAGT	6840	
					ATCTGCGCTC	6900	•
TGCTGAAGC	C AGTTACCTTC	GGAAAAAGAG	TTGGTAGCTC	TTGATCCGGC	AAACAAACCA	6960	
CCGCTGGTA	G CGGTGGTTT	TTTGTTTGCA	AGCAGCAGAT	TACGCGCAGA	AAAAAAGGAT	7020	
CTCAAGAAGA	A TCCTTTGAT	C TTTTCTACGG	GGTCTGACGC	TCAGTGGAAG	GAAAACTCAC	7080	
GTTAAGGGA'	r TTTGGTCAT	S AGATTATCAA	AAAGGATCTT	CACCTAGATO	CTTTTAAATT	7140	
	,						

7200	GACAGTTACC	AACTTGGTCT	TATATGAGTA	ATCTAAAGTA	TTTTAAATCA	AAAAATGAAG
7260	TCCATAGTTG	ATTŢCGTTCA	CGATCTGTCT	CCTATCTCAG	CAGTGAGGCA	AATGCTTAAT
7320	GGCCCCAGTG	CTTACCATCT	TACGGGAGGG	ATAACTACGA	CGTCGTGTAG	CCTGACTCCC
7380	ATAAACCAGC	TTTATCAGCA	CGGCTCCAGA	CCACGCTCAC	ACCGCGAGAC	CTGCAATGAT
7440	ATCCAGTCTA	, ATCCGCCTCC,	CTGCAACTTT	AGAAGTGGTC	GGCCGAGCGC	CAGCCGGAAG
j 47500	CGCAACGTTG	TAATAGTTTG	GTTCGCCAGT	AGAGTAAGTA	CCGGGAAGCT	TTAATTGTTG
7560	TCATTCAGCT	TGGTATGGCT	GCTCGTCGTT	GTGGTGTCAC	TACAGGCATC	TTGCCATTGC
7620	AAAGCGGTTA	GTTGTGCAAA	GATCCCCCAT	CGAGTTACAT	ACGATCAAGG	CCGGTTCCCA
7680	TCACTCATGG	CGCAGTGTŢA	GTAAGTTGGC	GTTGTCAGAA	TCCTCCGATC	GCTCCTTCGG
7740	TTTTCTGTGA	CGTAAGATGC	TCATGCCATC	TCTCTTACTG	ACTGCATAAT	TTATGGCAGC
7800	AGTTGCTCTT	GCGGCGACCG	AATAGTGTAT	TCATTCTGAG	CTCAACCAAG	CTGGTGAGTA
7860	GTGCTCATCA	AACTTTAAAA	CACATAGCAG	AATACCGCGC	AATACGGGAT	GCCCGGCGTC
7920	AGATCCAGTT	ACCGCTGTTG	CAAGGATCTT	CGAAAACTCT	TTCTTCGGGG	TTGGAAAACG
7980	ACCAGCGTTT	TTTTACTTTC	CTTCAGCATC	CCCAACTGAT	CACTCGTGCA	CGATGTAACC
8040	GCGACACGGA	GGGAATAAGG	CCGCAAAAA	AGGCAAAATG	AAAAACAGGA	CTGGGTGAGC
8100	CAGGGTTATT	AAGCATTTAT	AATATTATTG	TTCCTTTTTC	ACTCATACTC	AATGTTGAAT
8160	GGGGTTCCGC	TAAACAAATA	TTTAGAAAAA	TTTGAATGTA	CGGATACATA	GTCTCATGAG
8192			TC	CCACCTGACG	CCGAAAAGTG	GCACATTTCC

(2) INFORMATION FOR SEQ ID NO:37:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7000 base pairs

 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

		(*	11.		•		
_	AGATCTCGGC	CGCATATTAA	GTGCATTGTT	CTCGATACCG	CTAAGTGCAT	TGTTCTCGTT	60
	•						
	AGCTCGATGG	ACAAGTGCAT	TGTTCTCTTG	CTGAAAGCTC	GATGGACAAG	TGCATTGTTC	120
			•				
	TCTTGCTGAA	AGCTCGATGG	ACAAGTGCAT		•	AGTACCCGGG	180

AGTACCCTCG ACCGCCGGAG TATAAATAGA GGCGCTTCGT CTACGGAGCG ACAATTCAAT 240 TCAAACAAGC AAAGTGAACA CGTCGCTAAG CGAAAGCTAA GCAAATAAAC AAGCGCAGCT 300 GAACAAGCTA AACAATCTGC AGTAAAGTGC AAGTTAAAGT GAATCAATTA AAAGTAACCA 360 GCAACCAAGT AAATCAACTG CAACTACTGA AATCTGCCAA GAAGTAATTA TTGAATACAA 420 GAAGAGAACT CTGAATACTT TCAACAAGTT ACCGAGAAAG AAGAACTCAC ACACAGCTAG 540 CGTTTAAACT TAAGCTTGGT ACCGAGCTCG GATCCACTAG TCCAGTGTGG TGGAATTCGG CTTGGGATGA CGCCTCCTCC GCCCGGACGT GCCGCCCCCA GCGCACCGCG CGCCCGCGTC 600 CCTGGCCCGC CGGCTCGGTT GGGGCTTCCG CTGCGGCTGC GGCTGCTGCT GCTGCTCTGG 660 GCGGCCGCCG CCTCCGCCCA GGGCCACCTA AGGAGCGGAC CCCGCATCTT CGCCGTCTGG 720 AAAGGCCATG TAGGGCAGGA CCGGGTGGAC TTTGGCCAGA CTGAGCCGCA CACGGTGCTT 780 TTCCACGAGC CAGGCAGCTC CTCTGTGTGG GTGGGAGGAC GTGGCAAGGT CTACCTCTTT 840 GACTTCCCCG AGGGCAAGAA CGCATCTGTG CGCACGGTGA ATATCGGCTC CACAAAGGGG 900 TCCTGTCTGG ATAAGCGGGA CTGCGAGAAC TACATCACTC TCCTGGAGAG GCGGAGTGAG 960 GGGCTGCTGG CCTGTGGCAC CAACGCCCGG CACCCCAGCT GCTGGAACCT GGTGAATGGC 1020 ACTGTGGTGC CACTTGGCGA GATGAGAGGC TACGCCCCCT TCAGCCCGGA CGAGAACTCC 1080 CTGGTTCTGT TTGAAGGGGA CGAGGTGTAT TCCACCATCC GGAAGCAGGA ATACAATGGG 1140 AAGATCCCTC GGTTCCGCCG CATCCGGGGC GAGAGTGAGC TGTACACCAG TGATACTGTC 1200 ATGCAGAACC CACAGTTCAT CAAAGCCACC ATCGTGCACC AAGACCAGGC TTACGATGAC 1260 AAGATCTACT ACTTCTTCCG AGAGGACAAT CCTGACAAGA ATCCTGAGGC TCCTCTCAAT 1320 GTGTCCCGTG TGGCCCAGTT GTGCAGGGGG GACCAGGGTG GGGAAAGTTC ACTGTCAGTC 1380 TCCAAGTGGA ACACTTTTCT GAAAGCCATG CTGGTATGCA GTGATGCTGC CACCAACAAG 1440 1500 AACTTCAACA GGCTGCAAGA CGTCTTCCTG CTCCCTGACC CCAGCGGCCA GTGGAGGGAC ACCAGGGTCT ATGGTGTTTT CTCCAACCCC TGGAACTACT CAGCCGTCTG TGTGTATTCC 1560 CTCGGTGACA TTGACAAGGT CTTCCGTACC TCCTCACTCA AGGGCTACCA CTCAAGCCTT 1620 1680 CCCAACCGC GGCCTGGCAA GTGCCTCCCA GACCAGCAGC CGATACCCAC AGAGACCTTC CAGGTGGCTG ACCGTCACCC AGAGGTGGCG CAGAGGGTGG AGCCCATGGG GCCTCTGAAG 1740 1800 ACGCCATTGT TCCACTCTAA ATACCACTAC CAGAAAGTGG CCGTTCACCG CATGCAAGCC AGCCACGGGG AGACCTTTCA TGTGCTTTAC CTAACTACAG ACAGGGGCAC TATCCACAAG 1860 GTGGTGGAAC CGGGGGAGCA GGAGCACAGC TTCGCCTTCA ACATCATGGA GATCCAGCCC 1920

TTCCGCCGCG CGGCTGCCAT CCAGACCATG TCGCTGGATG CTGAGCGGAG GAAGCTGTAT 1980 GTGAGCTCCC AGTGGGAGGT GAGCCAGGTG CCCCTGGACC TGTGTGAGGT CTATGGCGGG 2040 GGCTGCCACG GTTGCCTCAT GTCCCGAGAC CCCTACTGCG GCTGGGACCA GGGCCGCTGC 2100 ATCTCCATCT ACAGCTCCGA ACGGTCAGTG CTGCAATCCA TTAATCCAGC CGAGCCACAC 2160 AAGGAGTGTC CCAACCCCAA ACCAGACAAG GCCCCACTGC AGAAGGTTTC CCTGGCCCCA 2220 AACTCTCGCT ACTACCTGAG CTGCCCCATG GAATCCCGCC ACGCCACCTA CTCATGGCGC 2280 CACAAGGAGA ACGTGGAGCA GAGCTGCGAA CCTGGTCACC AGAGCCCCAA CTGCATCCTG 2340 TTCATCGAGA ACCTCACGGC GCAGCAGTAC GGCCACTACT TCTGCGAGGC CCAGGAGGGC 2400 ALCOHOLDS 54.1N/O AC TCCTACTTCC GCGAGGCTCA GCACTGGCAG CTGCTGCCCG AGGACGGCAT CATGGCCGAG 2460 CACCTGCTGG GTCATGCCTG TGCCCTGGCT GCCTCCCTCT GGCTGGGGGT GCTGCCCACA 2520 CTCACTCTTG GCTTGCTGGT CCACGTGAAG CTTGGGCCCG TTTAAACCCG CTGATCAGCC 2580 TCGACTGTGC CTTCTAGTTG CCAGCCATCT GTTGTTTGCC CCTCCCCCGT GCCTTCCTTG 2640 ACCCTGGAAG GTGCCACTCC CACTGTCCTT TCCTAATAAA ATGAGGAAAT TGCATCGCAT 2700 2760 GATTGGGAAG ACAATAGCAG GCATGCTGGG GATGCGGTGG GCTCTATGGC TTCTGAGGCG 2820 GAAAGAACCA GCTGGGGCTC TAGGGGGTAT CCCCACGCGC CCTGTAGCGG CGCATTAAGC 2880 GCGGCGGTG TGGTGGTTAC GCGCAGCGTG ACCGCTACAC TTGCCAGCGC CCTAGCGCCC 2940 GCTCCTTTCG CTTTCTTCCC TTCCTTTCTC GCCACGTTCG CCGGCTTTCC CCGTCAAGCT 3000 CTAAATCGGG GCATCCCTTT AGGGTTCCGA TTTAGTGCTT TACGGCACCT CGACCCCAAA 3060 AAACTTGATT AGGGTGATGG TTCACGTAGT GGGCCATCGC CCTGATAGAC GGTTTTTCGC 3120 CCTTTGACGT TGGAGTCCAC GTTCTTTAAT AGTGGACTCT TGTTCCAAAC TGGAACAACA 3180 CTCAACCCTA TCTCGGTCTA TTCTTTTGAT TTATAAGGGA TTTTGGGGAT TTCGGCCTAT . 3240 TGGTTAAAAA ATGAGCTGAT TTAACAAAAA TTTAACGCGA ATTAATTCTG TGGAATGTGT 3300 GTCAGTTAGG GTGTGGAAAG TCCCCAGGCT CCCCAGGCAG GCAGAAGTAT GCAAAGCATG 3360 CATCTCAATT AGTCAGCAAC CAGGTGTGGA AAGTCCCCAG GCTCCCCAGC AGGCAGAAGT 3420 ATGCAAAGCA TGCATCTCAA TTAGTCAGCA ACCATAGTCC CGCCCTAAC TCCGCCCATC 3480 CCGCCCTAA CTCCGCCCAG TTCCGCCCAT TCTCCGCCCC ATGGCTGACT AATTTTTTT 3540 ATTTATGCAG AGGCCGAGGC CGCCTCTGCC TCTGAGCTAT TCCAGAAGTA GTGAGGAGGC 3600

TTTTTGGAG GCCTAGGCTT TTGCAAAAAG CTCCCGGGAG CTTGTATATC CATTTTCGGA 3660 TCTGATCAAG AGACAGGATG AGGATCGTTT CGCATGATTG AACAAGATGG ATTGCACGCA 3720 GGTTCTCCGG CCGCTTGGGT GGAGAGGCTA TTCGGCTATG ACTGGGCACA ACAGACAATC 3780 GGCTGCTCTG ATGCCGCCGT GTTCCGGCTG TCAGCGCAGG GGCGCCCGGT TCTTTTTGTC 3840 AAGACCGACC TGTCCGGTGC CCTGAATGAA CTGCAGGACG AGGCAGCGCG GCTATCGTGG 3900 CTGGCCACGA CGGGCGTTCC TTGCGCAGCT GTGCTCGACG TTGTCACTGA AGCGGGAAGG 3960 GACTGGCTGC TATTGGGCGA AGTGCCGGGG CAGGATCTCC TGTCATCTCA CCTTGCTCCT 4020 GCCGAGAAAG TATCCATCAT GGCTGATGCA ATGCGGCGGC TGCATACGCT TGATCCGGCT 4080 Programme State of the Alexander ACCTGCCCAT TCGACCACCA AGCGAAACAT CGCATCGAGC GAGCACGTAC TCGGATGGAA 4140 Addition to the second GCCGGTCTTG TCGATCAGGA TGATCTGGAC GAAGAGCATC AGGGGCTCGC GCCAGCCGAA 4200 CTGTTCGCCA GGCTCAAGGC GCGCATGCCC GACGGCGAGG ATCTCGTCGT GACCCATGGC 4260 GATGCCTGCT TGCCGAATAT CATGGTGGAA AATGGCCGCT TTTCTGGATT CATCGACTGT 4320 GGCCGGCTGG GTGTGGCGGA CCGCTATCAG GACATAGCGT TGGCTACCCG TGATATTGCT 4380 GAAGAGCTTG GCGGCGAATG GGCTGACCGC TTCCTCGTGC TTTACGGTAT CGCCGCTCCC 4440 GATTCGCAGC GCATCGCCTT CTATCGCCTT CTTGACGAGT TCTTCTGAGC GGGACTCTGG 4500 GGTTCGAAAT GACCGACCAA GCGACGCCCA ACCTGCCATC ACGAGATTTC GATTCCACCG 4560 CCGCCTTCTA TGAAAGGTTG GGCTTCGGAA TCGTTTTCCG GGACGCCGGC TGGATGATCC 4620 TCCAGCGCGG GGATCTCATG CTGGAGTTCT TCGCCCACCC CAACTTGTTT ATTGCAGCTT 4680 ATAATGGTTA CAAATAAAGC AATAGCATCA CAAATTTCAC AAATAAAGCA TTTTTTTCAC 4740 TGCATTCTAG TTGTGGTTTG TCCAAACTCA TCAATGTATC TTATCATGTC TGTATACCGT 4800 4860 CGACCTCTAG CTAGAGCTTG GCGTAATCAT GGTCATAGCT GTTTCCTGTG TGAAATTGTT Arath Park 1.2 31 5Y ATCCGCTCAC AATTCCACAC AACATACGAG CCGGAAGCAT AAAGTGTAAA GCCTGGGGTG 4920 (2000年) 11年 1月2日 - 1200年 1 1663 CCTAATGAGT GAGCTAACTC ACATTAATTG CGTTGCGCTC ACTGCCCGCT TTCCAGTCGG 4980 Service Armed GAAACCTGTC GTGCCAGCTG CATTAATGAA TCGGCCAACG CGCGGGGAGA GGCGGTTTGC 5040 5100 GTATTGGGCG CTCTTCCGCT TCCTCGCTCA CTGACTCGCT GCGCTCGGTC GTTCGGCTGC 5160 GGCGAGCGGT ATCAGCTCAC TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA ACGCAGGAAA GAACATGTGA GCAAAAGGCC AGCAAAAGGC CAGGAACCGT AAAAAAGGCCG 5220 5280 CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG GTGGCGAAAC CCGACAGGAC TATAAAGATA CCAGGCGTTT CCCCCTGGAA 5340

GCTCCCTCGT	GCGCTCTCCT	GTTCCGACCC	TGCCGCTTAC	CGGATACCTG	TCCGCCTTTC	5400	
TCCCTTCGGG	AAGCGTGGCG	CTTTCTCAAT	GCTCACGCTG	TAGGTATCTC	AGTTCGGTGT	5460	
AGGTCGTTCG	CTCCAAGCTG	GGCTGTGTGC	ACGAACCCCC	CGTTCAGCCC	GACCGCTGCG	5520	
CCTTATCCGG	TAACTATCGT	CTTGAGTCCA	ACCCGGTAAG	ACACGACTTA	•	5580 ***	
CAGCAGCCAC	TGGTAACAGG	ATTAGCAGAG	CGAGGTATGT	AGGCGGTGCT		5640	
TGAAGTGGTG	GCCTAACTAC	GGCTACACTA	GAAGGACAGT	ATTTGGTATC	TGCGCTCTGC	5700	
TGAAGCCAGT	TACCTTCGGA	AAAAGAGTTG	GTAGCTCTTG	ATCCGGCAAA	CAAACCACCG	5760	
CTGGTAGCGG	TGGTTTTTT	GTTTGCAAGC	AGCAGATTAC	GCGCAGAAAA	AAAGGATCTC	5820	in the second
AAGAAGATCC	TTTGATCTTT	TCTACGGGGT	CTGACGCTCA	GTGGAACGAA	AACTCACGTT	5880 ·	S. S. W. L.
AAGGGATTTT	GGTCATGAGA	TTATCAAAAA	GGATCTTCAC	CTAGATCCTT	TTAAATTAAA	5940	
AATGAAGTTT	TAAATCAATC	TAAAGTATAT	ATGAGTAAAC	TTGGTCTGAC	AGTTACCAAT	6000	1 25 T 25
GCTTAATCAG	TGAGGCACCT	ATCTCAGCGA	TCTGTCTATT	TCGTTCATCC	ATAGTTGCCT	6060	2000 3000
GACTCCCCGT	CGTGTAGATA	ACTACGATAC	GGGAGGGCTT	ACCATCTGGC	CCCAGTGCTG	6120	an ing the
CAATGATACC	GEGAGACCCA	CGCTCACCGG	CTCCAGATTT	ATCAGCAATA	AACCAGCCAG	6180	
CCGGAAGGGC	CGAGCGCAGA	AGTGGTCCTG	CAACTTTATC	CGCCTCCATC	CAGTCTATTA	6240	-
ATTGTTGCCG	GGAAGCTAGA	GTAAGTAGTT	CGCCAGTTAA	TAGTTTGCGC	AACGTTGTTG	6300	• '.
CCATTGCTAC	AGGCATCGTG	GTGTCACGCT	CGTCGTTTGG	TATGGCTTCA	TTCAGCTCCG	6360	
GTTCCCAACG	ATCAAGGCGA	GTTACATGAT	CCCCCATGTT	GTGCAAAAAA	GCGGTTAGCT	6420	·
CCTTCGGTCC	TCCGATCGTT	GTCAGAAGTA	AGTTGGCCGC	AGTGTTATCA	CTCATGGTTA	6480	
TGGCAGCACT	GCATAATTCT	CTTACTGTCA	TGCCATCCGT	AAGATGCTTT	TCTGTGACTG	6540	
GTGAGTACTC	AACCAAGTCA	TTCTGAGAAT	AGTGTATGCG	GCGACCGAGT	TGCTCTTGCC	6600	3.1 - 3.3 +
CGGCGTCAAT	ACGGGATAAT	ACCGCGCCAC	ATAGCAGAAC	TTTAAAAGTG	CTCATCATTG	6660	
GAAAACGTTC	TTCGGGGCGA	AAACTCTCAA	GGATCTTACC	GCTGTTGAGA	TCCAGTTCGA	6720	and the second
TGTAACCCAC	TCGTGCACCC	AACTGATCTT	CAGCATCTTT	TACTTTCACC	AGCGTTTCTG	6780	· · · · · · · · · · · · · · · · · · ·
GGTGAGCAAA	AACAGGAAGG	CAAAATGCCG	CAAAAAAGGG	AATAAGGGCG	ACACGGAAAT	6840	
GTTGAATACT	- CATACTCTTC	CTTTTTCAAT	ATTATTGAAG	CATTTATCAG	GGTTATTGTC	6900-	····,· · · · · · · · · · · · · · · · ·
TCATGAGCGG	ATACATATTT	GAATGTATTT	AGAAAAATAA	ACAAATAGGG	GTTCCGCGCA	6960	
CATTTCCCCG	AAAAGTGCCA	CCTGACGTCG	ACGGATCGGG			7000	

(2) INFORMATION FOR SEQ ID NO:38:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH CTAR
 - (A) LENGTH: 7108 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic) the control of the co

(xi) (SEOUENCE	DESCRIPTION:	SEQ: ID	NO:38:
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AGATCTCGGC	CGCATATTAA	GTGCATTGTT	CTCGATACCG	CTAAGTGCAT	TGTTCTCGTT	60,	$\{2\}^{-4^{1}}, \ 2^{r}$
AGCTCGATGG	ACAAGTGCAT	TGTTCTCTTG	CTGAAAGCTC	GATGGACAAG	TGCATTGTTC	120	\$ 18 1 P. S. C.
TCTTGCTGAA	AGCTCGATGG	ACAAGTGCAT	TGTTCTCTTG	CTGAAAGCTC	AGTACCCGGG	1. 1.180	
AGTACCCTCG	ACCGCCGGAG	TATAAATAGA	GGCGCTTCGT	CTACGGAGCG	ACAATTCAAT	1. 240	
TCAAACAAGC	AAAGTGAACA	CGTCGCTAAG	CGAAAGCTAA	GCAAATAAAC	AAGCGCAGCT	300:	$\sqrt{3}$
GAACAAGCTA	AACAATCTGC	AGTAAAGTGC	AAGTTAAAGT	GAATCAATTA	AAAGTAACCA	360	
GCAACCAAGT	AAATCAACTG	CAACTACTGA	AATCTGCCAA	GAAGTAATTA	TTGAATACAA	420	; Z
GAAGAGAACT	CTGAATACTT	TCAACAAGTT	ACCGAGAAAG	AAGAACTCAC	ACACAGCTAG	V < 480	-115
CGTTTAAACT	TAAGCTTGGT	ACCGAGCTCG	GATCCACTAG	TCCAGTGTGG	TGGAATTCGG	540	*
CTTGGGATGA	CGCCTCCTCC	GCCCGGACGT	GCCGCCCCA	GCGCACCGCG	CGCCCGCGTC	600	No.
CCTGGCCCGC	CGGCTCGGTT	GGGGCTTCCG	CTGCGGCTGC	GGCTGCTGCT	GCTGCTCTGG.	660	• •
GCGGCCGCCG	CCTCCGCCCA	GGGCCACCTA	AGGAGCGGAC	CCCGCATCTT	CGCCGTCTGG	720	
AAAGGCCATG	TAGGGCAGGA	CEGGGTGGAC	TTTGGCCAGA	CTGAGCCGCA	CACGGTGCTT	780	
TTCCACGAGC	CAGGCAGCTG	CTCTGTGTGG	GTGGGAGGAC	GTGGCAAGGT	CTACCTCTTT	545 N 840	Tyl. 1 1 1 1 1 1 1 1 2 2 2 3 3 1 1 1 1 1 1 1
GACTTCCCCC	AGGGCAAGAA	CGCATCTGTG	CGCACGGTGA	ATATCGGCTC	CACAAAGGGG	900	5.00
TCCTGTCTGG	ATAAGCGGGA	CTGCGAGAAC	TACATCACTO	TCCTGGAGAG	G GCGGAGTGAG	960	i Jako
GGGCTGCTGC	CCTGTGGCAC	: CAACGCCCGG	CACCCCAGCT	GCTGGAACCT	r ggtgaatggc	1020	$\mathbf{v} = \{v_i \mid \sum_{j \in \mathcal{I}_i} v_j \}$
ACTGTGGTG	CACTTGGCGA	GATGAGAGGC	TACGCCCCT	TCAGCCCGG	A: CGAGAACTCC	1080	•
CTGGTTCTGT	TTGAAGGGGA	CGAGGTGTAT	TCCACCATCC	GGAAGCAGG	A ATACAATGGG	1140	
AAGATCCCTC	GGTTCCGCCG	G CATCCGGGGC	GAGAGTGAG	TGTACACCAC	G TGATACTGTC	1200	
ATGCAGAACO	CACAGTTCAT	CAAAGCCACC	ATCGTGCACC	C AAGACCAGG	C TTACGATGAC	1260	

Superior for the appropriate to the contract of the superior and the super

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AAGATCTACT ACTTCTTCCG	AGAGGACAAT	CCTGACAAGA	ATCCTGAGGC	TCCTCTCAAT	1320	
GTGTCCCGTG TGGCCCAGTT	GTGCAGGGGG	GACCAGGGTG	GGGAAAGTTC	ACTGTCAGTC	1380	
TCCAAGTGGA ACACTTTTCT	GAAAGCCATG	CTGGTATGCA	GTGATGCTGC		1440	• •
AACTTCAACA GGCTGCAAGA	CGTCTTCCTG	CTCCCTGACC	CCAGCGGCCA	GTGGAGGGAC	1500	
ACCAGGGTCT ATGGTGTTTT	CTCCAACCCC	TGGAACTACT	CAGCCGTCTG	TGTGTATTCC	1560	
CTCGGTGACA TTGACAAGGT	CTTCCGTACC	TCCTCACTCA	AGGGCTACCA	CTCAAGCCTT	1620	
CCCAACCCGC GGCCTGGCAA	GTGCCTCCCA	GACCAGCAGC	CGATACCCAC	AGAGACCTTC	1680	LANT LAGRA
CAGGTGGCTG ACCGTCACCC	AGAGGTGGCG	CAGAGGGTGG	AGCCCATGGG	GCCTCTGAAG	1740	
ACGCCATTGT TCCACTCTAA	ATACCACTAC	CAGAAAGTGG	CCGTTCACCG	CATGCAAGCC	1800	
AGCCACGGGG AGACCTTTCA	TGTGCTTTAC	CTAACTACAG	ACAGGGGCAC	TATCCACAAG	1860	
GTGGTGGAAC CGGGGGAGCA	GGAGCACAGC	TTCGCCTTCA	ACATCATGGA	GATCCAGCCC	1920	
TTCCGCCGCG CGGCTGCCAT	CCAGACCATG	TCGCTGGATG	CTGAGCGGAG	GAAGCTGTAT	1980	
GTGAGCTCCC AGTGGGAGGT	GAGCCAGGTG	CCCCTGGACC	TGTGTGAGGT	CTATGGCGGG	2040	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
GGCTGCCACG GTTGCCTCAT	GTCCCGAGAC	CCCTACTGCG	GCTGGGACCA	GGGCCGCTGC	2100	5.1
ATCTCCATCT ACAGCTCCGA	ACGGTCAGTG	CTGCAATCCA	TTAATCCAGC	CGAGCCACAC	2160	us ^{t t}
AAGGAGTGTC CCAACCCCAA	ACCAGACAAG	GCCCCACTGC	AGAAGGTTTC	CCTGGCCCCA	2220	
AACTCTCGCT ACTACCTGAG	CTGCCCCATG	GAATCCCGCC	ACGCCACCTA	CTCATGGCGC	2280	, , , , , ,
CACAAGGAGA ACGTGGAGCA	GAGCTGCGAA	CCTGGTCACC	AGAGCCCCAA	CTGCATCCTG	2340	4.
TTCATCGAGA ACCTCACGGC	GCAGCAGTAC	GGCCACTACT	TCTGCGAGGC	CCAGGAGGGC	2400	
TCCTACTTCC GCGAGGCTCA	GCACTGGCAG	CTGCTGCCCG	AGGACGGCAT	CATGGCCGAG	2460	
CACCTGCTGG GTCATGCCTG				GCTGCCCACA	2520	
CTCACTCTTG GCTTGCTGGT	CCACGTGAAG	CTTGGGCCCG	AACAAAAACT		2580	
GAGGATCTGA ATAGCGCCGT				TCCAGCACAG	2640	
TGGCGGCCGC TCGAGTCTAG	AGGGCCCGTT	TAAACCCGCT			2700	·
TCTAGTTGCC AGCCATCTGT	TGTTTGCCCC	TCCCCCGTGC	CTTCCTTGAC	CCTGGAAGGT	2760	
GCCACTCCCA CTGTCCTTTC	СТААТААААТ	GAGGAAATTG	CATCGCATTG	TCTGAGTAGG	2820	
TGTCATTCTA TTCTGGGGGG	TGGGGTGGG	CAGGACAGCA	AGGGGGAGGA	TTGGGAAGAC	2880	
AATAGCAGGC ATGCTGGGGA	TGCGGTGGGC	TCTATGGCTT	CTGAGGCGGA	AAGAACCAGC	2940	
TGGGGCTCTA GGGGGTATCC	CCACGCGCCC	TGTAGCGGCG	CATTAAGCGC	GGCGGGTGTG	3000	

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GTGGTTACGC GCAGCGTGAC CGCTACACTT GCCAGCGCCC TAGCGCCCGC TCCTTTCGCT 3060 TTCTTCCCTT CCTTTCTCGC CACGTTCGCC GGCTTTCCCC GTCAAGCTCT AAATCGGGGC 3120 ATCCCTTTAG GGTTCCGATT TAGTGCTTTA CGGCACCTCG ACCCCAAAAA ACTTGATTAG 3180 GGTGATGGTT CACGTAGTGG GCCATCGCCC TGATAGACGG TTTTTCGCCC TTTGACGTTG 3240 GAGTCCACGT TCTTTAATAG TGGACTCTTG TTCCAAACTG GAACAACACT CAACCCTATC 3300 TCGGTCTATT CTTTTGATTT ATAAGGGATT TTGGGGATTT CGGCCTATTG GTTAAAAAAT 3360 GAGCTGATTT AACAAAAATT TAACGCGAAT TAATTCTGTG GAATGTGTGT CAGTTAGGGT 3420 GTGGAAAGTC CCCAGGCTCC CCAGGCAGGC AGAAGTATGC AAAGCATGCA TCTCAATTAG 3480 TCAGCAACCA GGTGTGGAAA GTCCCCAGGC TCCCCAGCAG GCAGAAGTAT GCAAAGCATG 3540 CATCTCAATT AGTCAGCAAC CATAGTCCCG CCCCTAACTC CGCCCATCCC GCCCCTAACT 3600 CCGCCCAGTT CCGCCCATTC TCCGCCCCAT GGCTGACTAA TTTTTTTTAT TTATGCAGAG 3660 GCCGAGGCCG CCTCTGCCTC TGAGCTATTC CAGAAGTAGT GAGGAGGCTT TTTTGGAGGC 3720 CTAGGCTTTT GCAAAAAGCT CCCGGGAGCT TGTATATCCA TTTTCGGATC TGATCAAGAG 3780 ACAGGATGAG GATCGTTTCG CATGATTGAA CAAGATGGAT TGCACGCAGG TTCTCCGGCC 3840 GCTTGGGTGG AGAGGCTATT CGGCTATGAC TGGGCACAAC AGACAATCGG CTGCTCTGAT 3900 GCCGCCGTGT TCCGGCTGTC AGCGCAGGGG CGCCCGGTTC TTTTTGTCAA GACCGACCTG 3960 TCCGGTGCCC TGAATGAACT GCAGGACGAG GCAGCGCGGC TATCGTGGCT GGCCACGACG 4020 GGCGTTCCTT GCGCAGCTGT GCTCGACGTT GTCACTGAAG CGGGAAGGGA CTGGCTGCTA 4080 TTGGGCGAAG TGCCGGGGCA GGATCTCCTG TCATCTCACC TTGCTCCTGC CGAGAAAGTA 4140 TCCATCATGG CTGATGCAAT GCGGCGGCTG CATACGCTTG ATCCGGCTAC CTGCCCATTC 4200 9.354 GACCACCAAG CGAAACATCG CATCGAGCGA GCACGTACTC GGATGGAAGC CGGTCTTGTC 4260 THE RESIDENCE OF A SACTOR OF SERVICE OF THE GATCAGGATG ATCTGGACGA AGAGCATCAG GGGCTCGCGC CAGCCGAACT GTTCGCCAGG 4320 12 18 11 X CTCAAGGCGC GCATGCCCGA CGGCGAGGAT CTCGTCGTGA CCCATGGCGA TGCCTGCTTG 4380 CCGAATATCA TGGTGGAAAA TGGCCGCTTT TCTGGATTCA TCGACTGTGG CCGGCTGGGT 4440 GTGGCGGACC GCTATCAGGA CATAGCGTTG GCTACCCGTG ATATTGCTGA AGAGCTTGGC 4500 GGCGAATGGG CTGACCGCTT CCTCGTGCTT TACGGTATCG CCGCTCCCGA TTCGCAGCGC 4560 ATCGCCTTCT ATCGCCTTCT TGACGAGTTC TTCTGAGCGG GACTCTGGGG TTCGAAATGA 4620 CCGACCAAGC GACGCCCAAC CTGCCATCAC GAGATTTCGA TTCCACCGCC GCCTTCTATG 4680

AAAGGTTGGG CTTCGGAATC GTTTTCCGGG ACGCCGGCTG GATGATCCTC CAGCGCGGGG 4740 ATCTCATGCT GGAGTTCTTC GCCCACCCA ACTTGTTTAT TGCAGCTTAT AATGGTTACA 4800 AATAAAGCAA TAGCATCACA AATTTCACAA ATAAAGCATT TTTTTCACTG CATTCTAGTT 4860 GTGGTTTGTC CAAACTCATC AATGTATCTT ATCATGTCTG TATACCGTCG ACCTCTAGCT 4920 AGAGCTTGGC GTAATCATGG TCATAGCTGT TTCCTGTGTG AAATTGTTAT CCGCTCACAA 4980 TTCCACACAA CATACGAGCC GGAAGCATAA AGTGTAAAGC CTGGGGTGCC TAATGAGTGA 5040 GCTAACTCAC ATTAATTGCG TTGCGCTCAC TGCCCGCTTT CCAGTCGGGA AACCTGTCGT 5100 GCCAGCTGCA TTAATGAATC GGCCAACGCG CGGGGAGAGG CGGTTTGCGT ATTGGGCGCT 5160 CTTCCGCTTC CTCGCTCACT GACTCGCTGC GCTCGGTCGT TCGGCTGCGG CGAGCGGTAT 5220 CAGCTCACTC AAAGGCGGTA ATACGGTTAT CCACAGAATC AGGGGATAAC GCAGGAAAGA 5280 ACATGTGAGC AAAAGGCCAG CAAAAGGCCA GGAACCGTAA AAAGGCCGCG TTGCTGGCGT 5340 TTTTCCATAG GCTCCGCCC CCTGACGAGC ATCACAAAAA TCGACGCTCA AGTCAGAGGT 5400 GGCGAAACCC GACAGGACTA TAAAGATACC AGGCGTTTCC CCCTGGAAGC TCCCTCGTGC 5460 GCTCTCCTGT TCCGACCCTG CCGCTTACCG GATACCTGTC CGCCTTTCTC CCTTCGGGAA 5520 GCGTGCGCT TTCTCAATGC TCACGCTGTA GGTATCTCAG TTCGGTGTAG GTCGTTCGCT 5580 CCAAGCTGGG CTGTGTGCAC GAACCCCCCG TTCAGCCCGA CCGCTGCGCC TTATCCGGTA 5640 ACTATCGTCT TGAGTCCAAC CCGGTAAGAC ACGACTTATC GCCACTGGCA GCAGCCACTG 5700 GTAACAGGAT TAGCAGAGCG AGGTATGTAG GCGGTGCTAC AGAGTTCTTG AAGTGGTGGC 5760 CTAACTACGG CTACACTAGA AGGACAGTAT TTGGTATCTG CGCTCTGCTG AAGCCAGTTA 5820 CCTTCGGAAA AAGAGTTGGT AGCTCTTGAT CCGGCAAACA AACCACCGCT GGTAGCGGTG 5880 GTTTTTTGT TTGCAAGCAG CAGATTACGC GCAGAAAAAA AGGATCTCAA GAAGATCCTT 5940 TGATCTTTTC TACGGGGTCT GACGCTCAGT GGAACGAAAA CTCACGTTAA GGGATTTTGG 6000 TCATGAGATT ATCAAAAAGG ATCTTCACCT AGATCCTTTT AAATTAAAAA TGAAGTTTTA 6060 AATCAATCTA AAGTATATAT GAGTAÄACTT GGTCTGAČAG TTACCAATGC TTAATCAGTG 6120 AGGCACCTAT CTCAGCGATC TGTCTATTTC GTTCATCCAT AGTTGCCTGA CTCCCCGTCG 6180 TGTAGATAAC TACGATACGG GAGGGCTTAC CATCTGGCCC CAGTGCTGCA ATGATACCGC 6240 GAGACCCACG CTCACCGGCT CCAGATTTAT CAGCAATAAA CCAGCCAGCC GGAAGGGCCG 6300 AGCGCAGAAG TGGTCCTGCA ACTTTATCCG CCTCCATCCA GTCTATTAAT TGTTGCCGGG 6360 AAGCTAGAGT AAGTAGTTCG CCAGTTAATA GTTTGCGCAA CGTTGTTGCC ATTGCTACAG 6420

					** **	
GCATCGTGGT	GTCACGCTCG	TCGTTTGGTA	TGGCTTCATT	CAGCTCCGGT	TCCCAACGAT	6480
CAAGGCGAGT	TACATGATCC				TTCGGTCCTC	6540
CGATCGTTGT	CAGAAGTAAG	TTGGCCGCAG		CATGGTTATG		6600
ATAATTCTCT	TACTGTCATG	CCATCCGTAA	GATGCTTTTC	TGTGACTGGT	GAGTACTCAA	6660
CCAAGTCATT	CTGAGAATAG	TGTATGCGGC	GACCGAGTTG	CTCTTGCCCG	GCGTCAATAC	6720
GGGATAATAC	CGCGCCACAT	AGCAGAACTT	TAAAAGTGCT	CATCATTGGA	AAACGTTCTT	6780
	•				TAACCCACTC	6840
			1 4	ئى	TGAGCAAAAA	6900
•,	ere e	leti ti	Balan V 3	New Transfer	TGAATACTCA	6960
		and the second	n i Akuti		Burn Var	7020
	;	\$	1111		TTTCCCCGAA	7080
	ta e		MANIAGGGI	TCCGCGCACA	TITCCCOAA	7108
AAGTGCCACC	TGACGTCGAC	GGATCGGG				,100

(2) INFORMATION FOR SEQ ID NO:39:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4019 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

CTCGAGAAAT CATAAAAAAT	TTATTTGCTT	TGTGAGCGGA	TAACAATTAT	AATAGATTCA	v 60°
ATTGTGAGCG GATAACAATT	TÇACACAGAA	TTCATTAAAG	AGGAGAAATT	AACTATGAGA	120
GGATCGCATC ACCATCACCA	TCACGGATCC	CTGGTTCTGT	TTGAAGGGGA	CGAGGTGTAT	180
TCCACCATCC GGAAGCAGGA	ATACAATGGG	AAGATCCCTC	GGTŢĊĊGĊĊĠ	CATCCGGGGC	240
GAGAGTGAGC TGTACACCAG	TGATACTGTC	ATGCAGAACC	CACAGTTCAT	CAAAGCCACC	300
ATCGTGCACC AAGACCAGGC	TTACGATGAC	AAGATCTACT	ACTTCTTCCG	AGAGGACAAT	360
CCTGACAAGA ATCCTGAGGC	TCCTCTCAAT	GTGTCCCGTG	TGGCCCAGTT	GTGCAGGGGG	420
GACCAGGGTG GGGAAAGTTC	: ACTGTCAGTC	TCCAAGTGGA	ACACTTTTCT	GAAAGCCATG	480.
CTGGTATGCA GTGATGCTGC	CACCAACAAG	AACTTCAACA	GGCTGCAAGA	CGTCTTCCTG	540

CTCCCTGACC	CCAGCGGCCA	GTGGAGGGAC	ACCAGGGTCT	ATGGTGTTTT	CTCCAACCCC	600	
TGGAACTACT	CAGCCGTCTG	TGTGTATTCC	CTCGGTGACA	TTGACAAGGT	CTTCCGTACC	660	•.
TCCTCACTCA	AGGGCTACCA	CTCAAGCCTT	CCCAACCCGC	GGCCTGGCAA	GTGCCTCCCA	720	
GACCAGCAGC	CGATACCCAC	AGAAAGCTTA	ATTAGCTGAG	CTTGGACTCC	TGTTGATAGA	780	
TCCAGTAATG	ACCTCAGAAC		TTTGTTCAGA	ACGCTCGGTT	GCCGCCGGGÇ	840	
GTTTTTTATT	GGTGAGAATC	·	TGGCGAGATT	TTCAGGAGCT	AAGGAAGCTA	900	*.
AAATGGAGAA	AAAAATCACT	GGATATACCA	CCGTTGATAT	ATCCCAATGG	CATCGTAAAG	960	
AACATTTTGA	GGCATTTCAG	TCAGTTGCTC	AATGTACCTA	TAACCAGACC	GTTCAGCTGG	1020	1971 1429
ATATTACGGC	CTTTTTAAAG	ACCGTAAAGA	AAAATAAGCA	CAAGTTTTAT	CCGGCCTTTA	1080	
TTCACATTCT	TGCCCGCCTG	ATGAATGCTC	ATCCGGAATT	TCGTATGGCA	ATGAAAGACG	1140	
GTGAGCTGGT	GATATGGGAT	AGTGTTCACC	CTTGTTACAC	CGTTTTCCAT		1200	and Armenia (1)
AAACGTTTTC	ATCGCTCTGG	AGTGAATACC	ACGACGATTT	CCGGCAGTTT	CTACACATAT	1260	
ATTCGCAAGA	TGTGGCGTGT	TACGGTGAAA	ACCTGGCCTA	TTTCCCTAAA	GGGTTTATTG	1320	
AGAATATGTT	TTTCGTCTCA	GCCAATCCCT	GGGTGAGTTT	CACCAGTTTT	GATTTAAACG	1380	
TGGCCAATAT	GGACAACTTC	TTCGCCCCCG	TTTTCACCAT	GGGCAAATAT	TATACGCAAG	1440	
GCGACAAGGT	GCTGATGCCG	CTGGCGATTC	AGGTTCATCA	TGCCGTCTGT	GATGGCTTCC	1500	
ATGTCGGCAG	AATGCTTAAT	GAATTACAAC	AGTACTGCGA	TGAGTGGCAG	GGCGGGGCGT	1560	·:·
AATTTTTTA	AGGCAGTTAT	TGGTGCCCTT	AAACGCCTGG	GGTAATGACT	CTCTAGCTTG	1620	
AGGCATCAAA	TAAAACGAAA	GGCTCAGTCG	AAAGACTGGG	CCTTTCGTTT	TATCTGTTGT	1680	
TTGTCGGTGA	ACGCTCTCCT		AATCCGCCGC			1740	, if the second
TTCGGTGATG		CCTCTGACAC	ATGCAGCTCC	CGGAGACGGT	CACAGCTTGT	1800	•
CTGTAAGCGG	ATGCCGGGAG	CAGACAAGCC	CGTCAGGGCG	CGTCAGCGGG	TGTTGGCGGG	1860	
TGTCGGGGCG	CAGCCATGAC		AGCGATAGCG			1920	A CONTRACTOR
ATGCGGCATC	AGAGCAGATT	GTACTGAGAG		GCGGTGTGAA	ATACCGCACA	1980	tig (NY)
GATGCGTAAC			GCTCTTCCGC			2040	
TGCGCTCGGT	CTGTCGGCTG	CGGCGAGCGG	TATCAGCTCA	CTCAAAGGCG	GTAATACGGT	2100	
TATCCACAGA	A ATCAGGGGAT	AACGCAGGAA	AGAACATGTG	AGCAAAAGGC	CAGCAAAAGG	2160	. 24
CCAGGAACCC	G TAAAAAGGCC	GCGTTGCTGG	GTTTTTCCA	TAGGCTCCGC	CCCCTGACG	2220	

						•	
	AGCATCACAA	AAATCGACGC	TCAAGTCAGA	GGTGGCGAAA	CCCGACAGGA	CTATAAAGAT	2280
	ACCAGGCGTT	TCCCCCTGGA	AGCTCCCTCG	TGCGCTCTCC	TGTTCCGACC	CTGCCGCTTA	2340
	CCGGATACCT	GTCCGCCTTT	CTCCCTTCGG	GAAGCGTGGC	GCTTTCTCAA	TGCTCACGCT	2400
	GTAGGTATCT	CAGTTCGGTG	TAGGTCGTTC	GCTCCAAGCT	GGGCTGTGTG	CACGAACCCC	2460
	CCGTTCAGCC	CGACCGCTGC	GCCTTATCCG	GTAACTATCG	TCTTGAGTCC	AACCCGGTAA	2520
	GACACGACTT	ATCGCCACTG	GCAGCAGCCA	CTGGTAACAG	GATTAGCAGA	GCGAGGTATG	2580
	TAGGCGGTGC	TACAGAGTTC	TTGAAGTGGT	GGCCTAACTA	CGGCTACACT	AGAAGGACAG	2640
	TATTTGGTAT	CTGCGCTCTG	CTGAAGCCAG	TTACCTTCGG	AAAAAGAGTT	GGTAGCTCTT	2700
	GATCCGGCAA	ACAAACCACC	GCTGGTAGCG	GTGGTTTTT	TGTTTGCAAG	CAGCAGATTA	2760
	CGCGCAGAAA	AAAAGGATCT	CAAGAAGATC	CTTTGATCTT	TTCTACGGGG	TCTGACGCTC	2820
	AGTGGAACGA	AAACTCACGT	TAAGGGATTT	TGGTCATGAG	ATTATCAAAA	AGGATCTTCA	2880
	CCTAGATCCT	ТТТАААТТАА	AAATGAAGTT	TTAAATCAAT	CTAAAGTATA	TATGAGTAAA	2940
٠.	CTTGGTCTGA	CAGTTACCAA	TGCTTAATCA	GTGAGGCACC	TATCTCAGCG	ATCTGTCTAT	3000
	TTCGTTCATC	CATAGCTGCC	TGACTCCCCG	TCGTGTAGAT	AACTACGATA	CGGGAGGGCT	3060
	TACCATCTGG	CCCCAGTGCT	GCAATGATAC	CGCGAGACCC	ACGCTCACCG	GCTCCAGATT	3120
	TATCAGCAAT	AAACCAGCCA	GCCGGAAGGG	CCGAGCGCAG	AAGTGGTCCT	GCAACTTTAT	3180
	CCGCCTCCAT	CCAGTCTATT	AATTGTTGCC	GGGAAGCTAG	AGTAAGTAGT	TCGCCAGTTA	3240
	ATAGTTTGCG	CAACGTTGTT	GCCATTGCTA	CAGGCATCGI	GGTGTCACGC	CTCGTCGTTTG	3300
	GTATGGCTTC	ATTCAGCTCC	GGTTCCCAAC	GATCAAGGC	G AGTTACATGA	A TCCCCCATGT	3360
	TGTGCAAAAA	AGCGGTTAG	TCCTTCGGTC	CTCCGATCG	TGTCAGAAG	r AAGTTGGCCG	3420
	CAGTGTTATO	ACTCATGGT	r ATGGCAGCAC	TGCATAATTO	TCTTACTGT(ATGCCATCCG	3480
	TAAGATGCTT	TTCTGTGACT	r ggtgagtaci	CAACCAAGTO	C ATTCTGAGA	A TAGTGTATGC	3540
		TTGCTCTTG	C CCGGCGTCAF			A CATAGCAGAA	3600
	CTTTAAAAGT	GCTCATCAT	r ggaaaacgti	CTTCGGGGC		A AGGATCTTAC	3660
•	CGCTGTTGAC	3 ATCCAGTTC	•	A CTCGTGCAC		r TCAGCATCTT	3720
	TTACTTTCAC	CAGCGTTTC	r gggtgagcai	AAACAGGAA	G GCAAAATGC	C GCAAAAAAGG	3780
	GAATAAGGG	GACACGGAA	A TGTTGAATA	C TCATACTCT	r cctttttca	A TATTATTGAA	3840
	GCATTTATC	A GGGTTATTG	T CTCATGAGC	GATACATAT	T TGAATGTAT	T TAGAAAAATA	3900
	AACAAATAG	G GGTTCCGCG	C ACATTTCCC	C GAAAAGTGC	C ACCTGACGT	C TAAGAAACCA	3960

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(2) INFORMATION FOR SEQ ID NO:40:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3999 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

(XI) Si		CRIPTION: SE					ing Maraja Basa Nasa
CTCGAGAAAT	CATAAAAAAT	TTATTTGCTT	TGTGAGCGGA	TAACAATTAT	AATAGATTCA	60	
ATTGTGAGCG	GATAACAATT		${\tt TTCATTAAAG}$			120	Section 1. Section 2.
GGATCGCATC	ACCATCACCA		CCGCATGCGA			180	
CAGGTGCCCC	TGGACCTGTG	TGAGGTCTAT				240	
CGAGACCCCT	ACTGCGGCTG	GGACCAGGGC		CCATCTACAG	CTCCGAACGG	300	e e e e e e e e e e e e e e e e e e e
TCAGTGCTGC	AATCCATTAA	TCCAGCCGAG		•	CCCCAAACCA	360	
GACAAGGCCC	CACTGCAGAA	GGTTTCCCTG	GCCCCAAACT	CTCGCTACTA	CCTGAGCTGC	420	
CCCATGGAAT	CCCGCCACGC	CACCTACTCA	TGGCGCCACA		GGAGCAGAGC	480	
TGCGAACCTG	GTCACCAGAG	CCCCAACTGC		TCGAGAACCT		540	ing Angle (1966) San Angle (1966)
CAGTACGGCC	ACTACTTCTG	CGAGGCCCAG	GAGGGCTCCT	ACTTCCGCGA	GGCTCAGCAC	600	
TGGCAGCTGC	TGCCCGAGGA	CGGCATCATG	GCCGAGCACC	TGCTGGGTCA	TGCCTGTGCC	660	
	CCCTCTGGCT				GCTGGTCCAC	720	ming, as into
GTGAAGCTTA	ATTAGCTGAG		TGTTGATAGA	TCCAGTAATG		780	
	TTTGTTCAGA				GGTGAGAATC	840	,
CAAGCTAGCT	TGGCGAGATT	TTCAGGAGCT	AAGGAAGCTA	AAATGGAGAA	AAAAATCACT	900	***
GGATATACCA	CCGTTGATAT	ATCCCAATGG	CATCGTAAAG	AACATTTTGA	GGCATTTCAG	960	.;
TCAGTTGCTC	AATGTACCTA	-	GTTCAGCTGG		CTTTTTAAAG	1020	
ACCGTAAAGA	AAAATAAGCA	CAAGTTTTAT	CCGGCCTTTA	TTCACATTCT	TGCCCGCCTG	1080	
ATGAATGCTC	ATCCGGAATT	TCGTATGGCA	ATGAAAGACG	GTGAGCTGGT	GATATGGGAT	1140	
AGTGTTCACC	CTTGTTACAC	CGTTTTCCAT	GAGCAAACTG	AAACGTTTTC	ATCGCTCTGG	1200	

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AGTGAATACC ACGACGATTT CCGGCAGTTT CTACACATAT ATTCGCAAGA TGTGGCGTGT 1260 TACGGTGAAA ACCTGGCCTA TTTCCCTAAA GGGTTTATTG AGAATATGTT TTTCGTCTCA 1320 GCCAATCCCT GGGTGAGTTT CACCAGTTTT GATTTAAACG TGGCCAATAT GGACAACTTC 1380 1440 TTCGCCCCG TTTTCACCAT GGGCAAATAT TATACGCAAG GCGACAAGGT GCTGATGCCG CTGGCGATTC AGGTTCATCA TGCCGTCTGT GATGGCTTCC ATGTCGGCAG AATGCTTAAT 1500 GAATTACAAC AGTACTGCGA TGAGTGGCAG GGCGGGGCGT AATTTTTTTA AGGCAGTTAT 1560 TGGTGCCCTT AAACGCCTGG GGTAATGACT CTCTAGCTTG AGGCATCAAA TAAAACGAAA 1620 GGCTCAGTCG AAAGACTGGG CCTTTCGTTT TATCTGTTGT TTGTCGGTGA ACGCTCTCCT 1680 1.27次 一般的美国的主播的 压 GAGTAGGACA AATCCGCCGC TCTAGAGCTG CCTCGCGCGT TTCGGTGATG ACGGTGAAAA 1740 CCTCTGACAC ATGCAGCTCC CGGAGACGGT CACAGCTTGT CTGTAAGCGG ATGCCGGGAG 1800 CAGACAAGCC CGTCAGGGCG CGTCAGCGGG TGTTGGCGGG TGTCGGGGCG CAGCCATGAC 1860 CCAGTCACGT AGCGATAGCG GAGTGTATAC TGGCTTAACT ATGCGGCATC AGAGCAGATT 1920 GTACTGAGAG TGCACCATAT GCGGTGTGAA ATACCGCACA GATGCGTAAG GAGAAAATAC 1980 CGCATCAGGC GCTCTTCCGC TTCCTCGCTC ACTGACTCGC TGCGCTCGGT CTGTCGGCTG 2040 CGGCGAGCGG TATCAGCTCA CTCAAAGGCG GTAATACGGT TATCCACAGA ATCAGGGGAT 2100 f = f(f)AACGCAGGAA AGAACATGTG AGCAAAAGGC CAGCAAAAGG CCAGGAACCG TAAAAAAGGCC 2160 GCGTTGCTGG CGTTTTTCCA TAGGCTCCGC CCCCCTGACG AGCATCACAA AAATCGACGC 2220 TCAAGTCAGA GGTGGCGAAA CCCGACAGGA CTATAAAGAT ACCAGGCGTT TCCCCCTGGA 2280 AGCTCCCTCG TGCGCTCTCC TGTTCCGACC CTGCCGCTTA CCGGATACCT GTCCGCCTTT 2340 CTCCCTTCGG GAAGCGTGGC GCTTTCTCAA TGCTCACGCT GTAGGTATCT CAGTTCGGTG 240.0 the water of the first of the first TAGGTCGTTC GCTCCAAGCT GGGCTGTGTG CACGAACCCC CCGTTCAGCC CGACCGCTGC 2460 法裁定的 计方案 建物类型 医三十四二种 医二十四 克尔特 医复杂乳病 2520 GCCTTATCCG GTAACTATCG TCTTGAGTCC AACCCGGTAA GACACGACTT ATCGCCACTG 111 4 GCAGCAGCCA CTGGTAACAG GATTAGCAGA GCGAGGTATG TAGGCGGTGC TACAGAGTTC 2580 71 3 TTGAAGTGGT GGCCTAACTA CGGCTACACT AGAAGGACAG TATTTGGTAT CTGCGCTCTG 2640 CTGAAGCCAG TTACCTTCGG AAAAAGAGTT GGTAGCTCTT GATCCGGCAA ACAAACCACC 2700 2760 GCTGGTAGCG GTGGTTTTTT TGTTTGCAAG CAGCAGATTA CGCGCAGAAA AAAAGGATCT CAAGAAGATC CTTTGATCTT TTCTACGGGG TCTGACGCTC AGTGGAACGA AAACTCACGT 2820 TAAGGGATTT TGGTCATGAG ATTATCAAAA AGGATCTTCA CCTAGATCCT TTTAAATTAA 2880

AAATGAAGTT	TTAAATCAAT.	CTAAAGTATA	TATGAGTAAA	CTTGGTCTGA	CAGTTACCAA	2940
TGCTTAATCA	GTGAGGCACC	TATCTCAGCG	ATCTGTCTAT	TTCGTTCATC	CATAGCTGCC	3000
TGACTCCCCG	TCGTGTAGAT	AACTACGATA	CGGGAGGCT	TACCATCTGG	CCCCAGTGCT	3060
GCAATGATAC	CGCGAGACCC	ACGCTCACCG	GCTCCAGATT	TATCAGCAAT	AAACCAGCCA	3120
GCCGGAAGGG	CCGAGCGCAG	AAGTGGTCCT	GCAACTTTAT	CCGCCTCCAT	CCAGTCTATT	3180
AATTGTTGCC	GGGAAGCTAG	AGTAAGTAGT	TCGCCAGTTA	ATAGTTTGCG	CAACGTTGTT	3240
GCCATTGCTA	CAGGCATCGT	GGTGTCACGC	TCGTCGTTTG	GTATGGCTTC	ATTCAGCTCC	3300
GGTTCCCAAC	GATCAAGGCG ⁵	AGTTACATGA	TCCCCCATGT	TGTGCAAAAA	AGCGGTTAGC	3360
TCCTTCGGTC	CTCCGATCGT	TGTCAGAAGT	AAGTTGGCCG	CAGTGTTATC	ACTCATGGTT	3420
ATGGCAGCAC	TGCATAATTC	TCTTACTGTC	ATGCCATCCG	TAAGATGCTT	TTCTGTGACT	3480
GGTGAGTACT	CAACCAAGTC	ATTCTGAGAA	TAGTGTATGC	GGCGACCGAG	TTGCTCTTGC	3540
CCGGCGTCAA	TACGGGATAA	TACCÉCGCCA	CATAGCAGAA	CTTTAAAAGT	GCTCATCATT	3600
GGAAAACGTT	CTTCGGGGCG	AAAACTCTCA	AGGATCTTAC	CGCTGTTGAG	ATCCAGTTCG	3660
ATGTAACCCA	CTCGTGCACC	CAACTGATCT	TCAGCATCTT	TTACTTTCAC	CAGCGTTTCT	3720
GGGTGAGCAA	AAACAGGAAG	GCAAAATGCC	GCAAAAAAGG	.GAATAAGGGC	GACACGGAAA	3780
TGTTGAATAC	TCATACTCTT	CCTTTTTCAA	TATTATTGAA	GCATTTATCA	GGGTTATTGT	3840
CTCATGAGCG	GATACATATT	TGAATGTATT	TAGAAAAATA	AACAAATAGG	GGTTCCGCGC	3900
ACATTTCCCC	GAAAAGTGCC	ACCTGACGTC	TAAGAAACCA	TTATTATCAT	GACATTAACC	3960
ТАТААААТАТ	GGCGTATCAC	GAGGCCCTTT	CGTCTTCAC		e e e e e e e e e e e e e e e e e e e	3999

(2) INFORMATION FOR SEQ ID NO:41:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8888 base pairs
 - (B) TYPE: nucleic acid state Blocker to see the
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ. ID NO:41:

GAGCCGCACA CGGTGCTTTT CCACGAGCCA GGCAGCTCCT CTGTGTGGGT GGGAGGACGT 60
GGCAAGGTCT ACCTCTTTGA CTTCCCCGAG GGCAAGAACG CATCTGTGCG CACGGTGAGC 120

CTCTCTCTC CCCCAACACC CCCCCTACCC TCTTATCTCC CCTCTGGCCC TGCCAAGGGT 180 CCTCAGGGAA TCCGAGGGAG CTGGCTTCTC TTCCTAAACT GCCCCCACCT CCGTATCCTA 240 TAAATGGCTC CTGGGGGAGG CTCCCTAAAG GTAGTCCAGA TTGGAGTGGG GAGCTGGGGC 300 -GGTGTGGAGA AAAACAGGAG CTAATGGGCC TGGCCAGCTG GGCAGCGCTG CTGCGGAAAG 360 CCCAGGCTGG AAGCTGGGCC CCAGAGCCCA TGCCTGGTCT TCTGAACCCT CTGGGCCTCA 420 GCTCTGGATA TGAGACCCTG TTTGACCTCA GGTAGATCAC TCACCCTCTC AGAGCCCCAG 480 TTGCTCATCT GTCAGATGAG AATAATGGTT GCTTCCTTTG GGGCTTATCC TGAGGCTGTG 540 TGGAAAGCAT TTCAGGGGTA CCTCACCCCT GGCAGATTGA ACTAATGCTT CTCCCCTTCC 600 CCAGGTGAAT ATCGGCTCCA CAAAGGGGTC CTGTCTGGAT AAGCGGGTGA GCGGGGGAGG 660 GATCTGGAGG GGTCTGAGCC ACTTGGTAAA GGGAGAGGAG ACCCTGAGGG TCTAAGGAAG 720 GAAGCATGGC CCTGCCCCAC GAGTCCCAGA CTGATGGGGA GACGTGGTCC TCTGTGCTTA 780 GGGGATGGCG TCAGCTGCAC ACACTCTGGG CTGTCCCGGG AGGCTGTCAC CTATGCTAAG 840 CCCTTCTGAC ACCTTCTTCC CTGATCCTGG GGGTCCTAGT GCTAGGCTTG CCAGGGCCTT 900 960 CCAGCAACCA ATTTCTCTCC TCCCTTCTCT CTTCCCCGGG CAGGACTGCG AGAACTACAT CACTCTCCTG GAGAGGCGGA GTGAGGGGCT GCTGGCCTGT GGCACCAACG CCCGGCACCC 1020 CAGCTGCTGG AACCTGGTGA GAAGGCTGCT CCCCATGTGC CTGATCAGCT CACCTTCTAC 1080 TGCGTGGGCT TCTGCCCCTC ATGGTGGGAA GGAGATGGCG AGACTCCAAT GCTGGCCTTG 1140 CCCTGGGAGG ATGGGGCTCC TGGCCGAGAA ACTGGCCGTC ATGGGAGGCA GTGGCTGTGG 1200 GATTATGTGG CCATCCAACC CTCTGGATCT CCCACAGGTG AATGGCACTG TGGTGCCACT 1260 TGGCGAGATG AGAGGCTACG CCCCCTTCAG CCCGGACGAG AACTCCCTGG TTCTGTTTGA 1320 AGGTTGGGGC ATGCTTCGGA ACTGGGCTGG GAGCAGGATG GTCAGCTCTT TGTCCAGTGT 1380 CCGGAGGAGG GACTTCCAGG AGCTGCCTGC CCTTACTCAT TTCTCCCTCC CACTGACCCC 1440 1500 AGGGGACGAG GTGTATTCCA CCATCCGGAA GCAGGAATAC AATGGGAAGA TCCCTCGGTT CCGCCGCATC CGGGGCGAGA GTGAGCTGTA CACCAGTGAT ACTGTCATGC AGAGTGAGTC 1560 AGGCTCCGGC TGGGCTGAGG GTGGGCAAGG GGGTGTGAGC ACTTAAGGTG GCAGATGGGA 1620 TCCTGATGTT TCTGGGAGGG CTCCCTGAGG GCCGCTGGGG CCATGCAGGA AAGCAGGACC 1680 TTGGTATAGG CCTGAGAAGT TAGGGTTGGC TGGGAGCAGA GGAACAGACA AGGTATAGCA 1740 GTGGGATGGG CCCAGCCCTC TTCAGGAACA CAAACAGAGG GAGCCCCAGA CCCAGTGCAG 1800 1860 GGTCCCCAGG AGCCAAAGTT TATCCTCTGC TGAGTTCACG TGGAGGCAGC CCCCCAACTC

CCTCCTCATC	AGGGCTCTGC	CAATTGAGCA	GAAGTGACAT	AGGGGCCCCC	AGGGACCTTC	1920
CCCCACTCCC	CAGGCATGAA	GTCATTGCTC	CTGGGCCGAT	GACATCTTTG	TAGGAAGAGG	1980
-GCAAAACAGG	TGTGGGGTGG	AGGTGCAGGG	TCTAGGGCCC	CTCGGGGAGT	TGGACCTGAT	2040
GTTATGAGTC	CTATTCCAGA	TCTGATTTGC	CATGGTTTGT	GCAGACCCGA	AGGAGGGAGG	2100
AGAGTGTGCA		GGTCTCCCGG				2160
TCTGTGCCCT		CAGTTCATCA		CGTGCACCAA	•	2220
ACGATGACAA	GATCTACTAC	TTCTTCCGAG		TGACAAGAAT	CCTGAGGCTC	2280
CTCTCAATGT	GTCCCGTGTG	GCCCAGTTGT	GCAGGGTGAA	CACGGGCGTG	AGGGCTGCTG	2340
CCTACCTCTC	ጥርጥር ርስጥርል እ	TAGGCCTGAG	THE NECESTRACE			9 (1946) 2400
GCIACGIGIC	IGIGCAIGAA	TAGGCCTGAG	IGAGGGIGAG	ricidididi	CCGIGIGCAI	2400
GTAGAAGTTG	TGTGGATGTA	TGAGTGGGTC	TGTGTCAGGG	ACTGTGGGAG	CAGCTGTGTG	2460
TGCATGGAGC	ATCATGTGTC	TGTGTGTGGG	· · · · · · · · · · · · · · · · · · ·	TGAGCTCCTG	TGCACGTATG	2520
ATGGCGTGTG	AGCGTGTGTA	TGATGGGGTG	TGTGTGTGTG	TGTGTGTGTG	TGTTTTGCCT	2580
GTGTGAATGT	GCTGTGCCAC	GTATGTGGGT		GTAAATGTGT	GTCTGAGTCC	2640
GTCTGCTCTG	TGGGGACCTG	GCACTCTCAC	CTGCCCTGAC	CCTGGGCACT	GCTGGCCCTG	2700
GGCTCTGGAT	CAGCCAGGCC	TGCTTGCAGG	AGTCTCATCT	GGAGACCTGC	CCTGAGTCCT	2760
GGGGCACCCC	CGGCAGGTCC	TGGCCCCTCG	CAGCCTGCCT	TCCTCCTCTG	GGCCCAGGTG	2820
TTGATATTGC	TGGCAGTGGT	TTCCTGGGGT	GTGTGGGGAA	GCCCGGGCAG	GTGCTGAGGG	2880
GCCTCTTCTC	CCCTCTACCC	TTCCAGGGGG	ACCAGGGTGG	GGAAAGTTCA	CTGTCAGTCT	2940
aar ramaar r	ar ammanana	(), (), ()		·	e Special Control	to the to specify the
CCAAGTGGAA	CACTTTTCTG	AAAGCCATGC		TGATGCTGCC	ACCAACAAGA	3000
ACTTCAACAG	GCTGCAAGAC	GTCTTCCTGC	· ·		TGGAGGGACA	3060
	TGGTGTTTTC	TCCAACCCCT	GGTGAGTGGC	CCTTGTCCTG	GGGCCGGGGC	-
					GGGCCTCCCT	
	1.75		The second	·	Design for	
GGTGTGGCAG	GAGCAGGGGC	TGCAGGCTCA	AGAGGCTGGG	CTGTTGCTGG	GTGTGGGGTG	3240
GGGGGACAGC	CAGTGCGATG	TATGTACTGT	TGTGTGAGTG	AGTCTGCACT	CATGGGTGTG	
		ACTCATGACT		CTGTGTGTCC	CACCACCTGC	3360
TTGTGCCGAG	AGTGGACACT				TCGGGGAGCT	3420
GGGTGCTATT	ACACCTGCTC	AGGCACTGCC	TGAGCCCGAT	AATTCACACT	TCTTAATCAC	3480
TCTCATTGAT	TGAACACACG	GCAGGCGGAA	GTGTTGGGTG	TGTGTGGGGA	GAGTTAGGGA	3540

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TAGAGTGGAG	GAAGCCAAGA	CCCTGCTCTG	TGGCTCCTGG	GTGAGTGGGT	CCCCCAGGC1	
GGGAAGGGGT	TGGGGGTCTG	GCCTCCTGGG	GCATCAGCAC	CCCACAGCCT	GTGCCCAGGG	3660
AGGGCTAGAG	AACTGCTCAG	CCTATGATGG	GGTTCCTCCT	GCCTTGGGGT	TGGGTAGAGC	3720
AGATGGCCTC	TAGACTCAGT	GATTCTGTAA	CAGGATACAA	GTTTGTGGTT	TTAAATTGCA	3780 Vitality (B)
GCACAAAGAA	ATTAGGCTGA	ACTCCTCTCC	TTCCTCCTCT	CCATCCCTCC	CCATTTTCAG	3840
TGGTGGTTGG	CAACTCAGTG	CCAGGCACAA	GGCTGGCCTG	GGTGAGTGGA	GGTGGATGGG	3900 · ·
TGGGTTCTGG	GCCCCCCATT	GAGCTGGTCT	CCATGTCACT	GCAGGAACTA	CTCAGCCGTC	3960
			A *		3.5	
TGTGTGTATT				CCTCCTCACT		4020
ርልሮሞሮልልGCC				TGACACCAGC		4080
CHCTCHAGCC				Take in the second		
GCCCAGCCCT	CCTTCTGCCT	CACCTCCCAC	CACCCCACTG	ACCTGGGCCT	GCTCTCCTTG	4140
agas amagam		G A G G G G A M A G	GCA CACACAC	ርምምርሮእሮርሞር	GCTGACCGTC	4200
CCCAGTGCCT		CAGCCGATAC		CITCCAGGIG	GCIGACCGIC	
ACCCAGAGGT				GAAGACGCCA		4260
СТАВАТАССА	CTACCAGAAA	GTGGCCGTCC	ACCGCATGCA	AGCCAGCCAC	GGGGAGACCT	4320
			1 May 18 8 1. 1			
TTCATGTGCT	TTACCTAACT	ACAGGTGAGA	GGCTACCCCG	GGACCCTCAG	TTTGCTTTGT	4380
AAAAACGGGC	ATGAAAGGTG		TGTAGTTAAC	ATCTGGTTGG	ATCTTTACAT	4440
GTGGAAGGAA	TAATTGAGTG				GTGTGGAAGA	4500
GCCAGGCAGG	GAGAGCTTCC	TGGAGGAGGT	AGGGGCAAGA	GGGAAAGGGG	GATGGGAGAA	4560
AAGCAAGCAC	TGGGATTTGG	G AGGCGGAAAT	CTGGAGAGT	TGAGCAAAGC	CAGGTGCACC	4620
TTTGGTCCAG	ATGTCTGACT	CAGGGAAGAA	GATGGTAGGA	AGAGACGTGG	CAAATGAGGA	4680
GGAGGGGCCT	GAACCACAGG	G GATACTGGCC	TCTGCCAGGC	AGAATGAGGG	AGTCAGGCCC	4740
TGCGCCTGTC	TTTGGGATT	TGCAGGTGAC	AAGAAACATI	TGAGGAGTTG	ATGGGGCACA	4800
•	16031	00021-00-0027	r og nonibær	adem a me	SHART TITE	MARIE OF THE SHEET OF THE
AATTAGGTAT	C GGGGAAGGA	TTCCAGGGGG	CAGAACCTT	r GCCATCTCAC	AGAGGACAGG	4860
GGCAGCTTCT	CTTCTTCCC	r ggagtaggco	CTGCTGGGG	AAGCTGGGTG	GAATGCCGTG	
GGAGATGCT	C CTGCTTTCT	GAAAGCCAC	GGACACGGAC	GAGCCAGTCC	TGAGTTGGGT	4980
TTGTCGCAG	C TTCCCATGC	C AGCTGCCTTC	CTTGAGACT	G GAAAGGGCCT	CTAGCACCCC	5040
TGGGGCCAT	r CAATTCAGG	C CCAGGCGCCC	C AACCTCAGT	r GTTCACATTC	CCCATGTGAT	5100
CTCCTGTTG	C TGCTTCACC	r TGGGACTGT	C TCGGCTTTG(G TGACCTTGTA	A GGAAACTGGA	5160
ACCCCAGCA(C CATTGTTTG	G CTCCTGGAA	G CCTTGGGGA	G AGGAATTTC	CACAGGGCAG	5220
					C ACCCTTGGGC	5280

CCCCATCCTT GCTTGGCTCC AGTACTGGCT GGCACAGCTG TTGTGGTCAT CCAGGGATGG 5340 CAGGGCACTG GGGAACAGAA GAGAGAGGTC ACACAGTGCG GAACTGGGAG CAGGAGCTAG 5400 GACAAGGAAG GCTGGACTTG GGCCATGGAT TCCCTTCCTG CAGACTTGGG AAGTGAGCAC 5460 ACTTGAGTGA TTAGAGAAGG TGTCTTCGTT CTAAGGGCAG TGGAGGAGGC ACCATTTTGG 5520 AGCCTGCATC ATTCGTATTT GGGCTAGATT GAAAAATAGA GCTTTCTAAG TCCTCTGCAG 5.580 AGAATGGGAG GCTCTCACAA CTGGGAGAAG TATTGGCTCT TTTCCTGAGA ATTTTGCCAA 5640 GGGTATGCTG TTACTGGGGC TGGTTTGGAA GGAGTATAGG GCATTATGTC TGTGAAGGCA 5700 GTGGCTGGGG TGGGGCCTTA TCAGGCCCAA GGAGCATCTG GCCACATCTC AGAGTCCACA 5760 Language Company GATGAGGATC ACGGATGTGT AGAGGAAACA TCCTAGGCAG GCAATCATCT GACTGCTTTT 5820 TTGGGGCAGG TGATGCCCTG GGAAATTGGG AGGGAGGGA AGAGGGAGGT AGGCTATTCT 5880 AGAAACTGGG AGAGCAGGTG AGGTAGGATT GGGAGGACCA GGGGTCAGGG TCCCCATTGG 5940 1300 TCCCTAATTG AGAACGGAGA GAGCATTGGT CTAGGAGGCA GGCAGCTCGG TTATAAGACC 6000 TTGGGAACTC TTGATTTAGA ATCCAAGATC CTTTTTAGAT CTAGGATTTT ATAAAATTAA 6060 GATATCCCCT AAGATCAAAT GCAACGTGGA GTCCTGAATT GGATCCTAGA ACAGAAGAAG 6120 GACATTTGTG GAAAAACTAG TGAAATCCAA ATAAAGTCTG TAGTTTTGTT AATAGTAATG 6180 CACCAATGTC AGTTGCCTAG TTGTGACAAA TATACCGTGG TTATGTAAGA TGGTAACATT 6240 AGGGGGAACT GGAGAAGGGT AGATTGGAGC TCTCTGTACT ATCTTTGCAA CTTTTCTGGG 6300 AATCTAAAAT TACTCCAAAA TAAAAAAAA ATGTATTTAA AGTAAATATA TTCCCTAAGA 6360 GTCCAGGAGG CAGGGGAGTT GTAGAAGCAG CTGAGTGGTT GGGTTCTGAC AGATTTGGTT 6420 CCAACTCGGT CTCTGCTGCT CACCAGCTGT GTGACCTTGA GCAAGTGGCT TAGCCTTTCT 6480 过程 医 GAGCCTGATT TCCTTATCTG TGGAGTGGGG AAGATGACAG CCACCTCGCA GGGCTGTGGA 6540 400 DEPT OF TOTAL TOTAL 1355 GGGTTAAACG AGGTGATGCA TGGACAGCAG CCGCACTGAC CTTGCTGGTG TGGGGCTCCT 6600 GCTTCTGTTC TTCCCGTGCA GCCTTGGGAA TGTTGGAGGC CGTATCCAGG GACCCCTGGG 6660 CCTCCTGGGA TGGCCTCTCT GGATCAGCCT TGGAAGGTTC CAGGCTGCCC TTAGGCTCCC 6720 ACATTCTTCC CCAGTCACGC TCTCCTCGCC CTGCCCACAC CAGTCCTGTG ACCCTTGCCT 6780 GAGTTGTGAC TTCCCACCCC TCCCCGGCCT AGAGGAAAGC TGCCTGGCCC CTCAGTGGGA 6840 CTCCCGCCCA CTGACCCTCT GTCCACCATA CACAGACAGG GGCACTATCC ACAAGGTGGT 6900 GGAACCGGGG GAGCAGGAGC ACAGCTTCGC CTTCAACATC ATGGAGATCC AGCCCTTCCG 6960

CCGCGCGCT GCCATCCAGA CCATGTCGCT GGATGCTGAG CGGGTGAGCC TTCCCCCACT	7020
GCGTCCCATG GGCTATGCAG TGACTGCAGC TGAGGACAGG GCTCCTTTGC ATGTGATTTG	7080
TGTGTTCTTT TAAGAGCTTC TAGGCCTTAG GGCCTGGACA TTTAGGACTG AGTGTGGGGT	7140
GGGGCCCGGG CCTGACCCAA TCCTGCTGTC CTTCCAGAGG AAGCTGTATG TGAGCTCCCA	7200
GTGGGAGGTG AGCCAGGTGC CCCTGGACCT GTGTGAGGTC TATGGCGGGG GCTGCCACGG	7260
TTGCCTCATG TCCCGAGACC CCTACTGCGG CTGGGACCAG GGCCGCTGCA TCTCCATCTA	7320
CAGCTCCGAA CGGTACGTTG GCCGGGATCC CTCCGTCCCT GGGACAAGGT GGGCATGGGA	7380
CAGGGGGAGG TGTTGTCGGG CTGGAAGAGG TGGCGGTACT GGGCCTTTCT TGTGGGACCT	7440
CCTCTCTACT GGAACTGCAC TAGGGGTAAG GATATGAGGG TCAGGTCTGC AGCCTTGTAT	7500
CTGCTGATCC TCTTTCGTCC TTCCCACTCC AGGTCAGTGC TGCAATCCAT TAATCCAGCC	7560
GAGCCACACA AGGAGTGTCC CAACCCCAAA CCAGGTACCT GATCTGGCCC TGCTGGCGGC	7620
TGTGGCCCAA TGAGTGGGGT ACTGCCCTGC CCTGATTGTC CTGGTCTGAG GGAAACATGG	7680
CCTTGTCCTG TGGGCCCCAG GTACATGGGG CAGGATACAG TCCTGCAGAG GGAGCCCTCT	7740
TGGTGGGATG AGCGAGACGG GAGAAAAAAG GAGGACGCTG AGGGCTGGGT TCCCCACGTT	7800
CATTCAGAAG CCTTGTCCTG GGATCCCAGT CGGTGGGGAG GACACATCCT CCCCTGGGAG	7860
CTCTTTGTCC CTCCTCACGG CTGCTTCCCC ACTGCCTCCC CAGACAAGGC CCCACTGCAG	7920
AAGGTTTCCC TGGCCCCAAA CTCTCGCTAC TACCTGAGCT GCCCCATGGA ATCCCGCCAC	7980
GCCACCTACT CATGGCGCCA CAAGGAGAAC GTGGAGCAGA GCTGCGAACC TGGTCACCAG	8040
AGCCCCAACT GCATCCTGTT CATCGAGAAC CTCACGGCGC AGCAGTACGG CCACTACTTC	8100
TGCGAGGCCC AGGAGGGCTC CTACTTCCGC GAGGCTCAGC ACTGGCAGCT GCTGCCCGAG	8160
GACGGCATCA TGGCCGAGCA CCTGCTGGGT CATGCCTGTG CCCTGGCCGC CTCCCTCTGG	
CTGGGGGTGC TGCCCACACT CACTCTTGGC TTGCTGGTCC ACTAGGGCCT CCCGAGGCTG	8280
GGCATGCCTC AGGCTTCTGC AGCCCAGGGC ACTAGAACGT CTCACACTCA GAGCCGGCTG	8340
GCCCGGGAGC TCCTTGCCTG CCACTTCTTC CAGGGGACAG AATAACCCAG TGGAGGATGC	8400
CAGGCCTGGA GACGTCCAGC CGCAGGCGGC TGCTGGGCCC CAGGTGGCGC ACGGATGGTG	8460
AGGGCTGAG AATGAGGCA CCGACTGTGA AGCTGGGGCA TCGATGACCC AAGACTTTAT	8520
CTTCTGGAAA ATATTTTCA GACTCCTCAA ACTTGACTAA ATGCAGCGAT GCTCCCAGCC	8580
CAAGAGCCCA TGGGTCGGGG AGTGGGTTTG GATAGGAGAG CTGGGACTCC ATCTCGACCC	8640
TGGGGCTGAG GCCTGAGTCC TTCTGGACTC TTGGTACCCA CATTGCCTCC TTCCCCTCCC	8700

TCTCTCATGG CTGGGT	GGCT GGTGTTCCTG	AAGACCCAGG	GCTACCCTCT	GTCCAGCCCT	8760
GTCCTCTGCA GCTCCC	TĈTC TGGTCĈTGGG	TCCCACAGGA	CAGCCGCCTT	GCATGTTTAT	8820
TGAAGGATGT TTGCTT	TCCG GACGGAAGGA	CGGAAAAAGC	TCTGAAAAA	AAAAAAAA	8880
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(2) INFORMATION FOR SEQ ID NO:42: (4) A Company of the American Am

- (i) SEQUENCE CHARACTERISTICS: STATE OF THE S
 - (A) LENGTH: 6622 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: Tinear of the state of the sta

(ii) MOLECULE TYPE: DNA (genomic) - TWO THEF TO LARGE AND A HER TO LEAD A SECOND ASSESSMENT OF THE SECOND ASSESSMENT OF T

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

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GATATCATGG	AGATAATTAA	AATGATAACC	ATCTCGCAAA	TAAATAAGTA	TTTTACTGTT	60
TTCGTAACAG	TTTTGTAATA	AAAAAACCTA	TAAATATGAA	ATTCTTAGTC	AACGTTGCCC	120
TTGTTTTTAT	GGTCGTATAC	ATTTCTTACA	TCTATGCGGA	TCGATGGGGA	TCCGCCCAGG	180
GCCACCTAAG	GAGCGGACCC	CGCATCTTCG	CCGTCTGGAA	AGGCCATGTA	GGGCAGGACC	240
GGGTGGACTT	TGGCCAGACT	GAGCCGCACA	CGGTGCTTTT	CCACGAGCCA	GGCAGCTCCT	300
CTGTGTGGGT	GGGAGGACGT	GGCAAGGTCT	ACCTCTTTGA	CTTCCCCGAG	GGCAAGAACG	360
CATCTGTGCG		ATCGGCTCCA	CAAAGGGGTC	CTGTCTGGAT	AAGCGGGACT	420
GCGAGAACTA	CATCACTCTC	CTGGAGAGGC	GGAGTGAGGG	GCTGCTGGCC	TGTGGCACCA	480
		TGGAACCTGG				540
	TGCCCCCTTC	AGCCCGGACG	AGAACTCCCT	GGTTCTGTTT		600
AGGTGTATTC		AAGCAGGAAT		GATCCCTCGG	TTCCGCCGCA	660
TCCGGGGCGA	GAGTGAGCTG	TACACCAGTG	ATACTGTCAT	GCAGAACCCA	CAGTTCATCA	720
AAGCCACCAT	CGTGCACCAA	GACCAGGCTT	ACGATGACAA	GATCTACTAC	TTCTTCCGAG	780
AGGACAATCC	TGACAAGAAT	CCTGAGGCTC	CTCTCAATGT	GTCCCGTGTG	GCCCAGTTGT	840
GCAGGGGGA	CCAGGGTGGG	GAAAGTTCAC	TGTCAGTCTC	CAAGTGGAAC	ACTTTTCTGA	900
AAGCCATGCT	GGTATGCAGT	GATGCTGCCA	CCAACAAGAA	CTTCAACAGG	CTGCAAGACG	960
TCTTCCTGCT	CCCTGACCCC	AGCGGCCAGT	GGAGGGACAC	CAGGGTCTAT	GGTGTTTTCT	1020
				*	•	

CCAACCCCTG GAACTACTCA GCCGTCTGTG TGTATTCCCT CGGTGACATT GACAAGGTCT 1080 TCCGTACCTC CTCACTCAAG GGCTACCACT CAAGCCTTCC CAACCCGCGG CCTGGCAAGT 1140 GCCTCCCAGA CCAGCAGCCG ATACCCACAG AGACCTTCCA GGTGGCTGAC CGTCACCCAG 1200 AGGTGGCGCA GAGGGTGGAG CCCATGGGGC CTCTGAAGAC GCCATTGTTC CACTCTAAAT 1260 ACCACTACCA GAAAGTGGCC GTTCACCGCA TGCAAGCCAG CCACGGGGAG ACCTTTCATG 1320 TGCTTTACCT AACTACAGAC AGGGGCACTA TCCACAAGGT GGTGGAACCG GGGGAGCAGG 1:380 AGCACAGCTT CGCCTTCAAC ATCATGGAGA TCCAGCCCTT CCGCCGCGCG GCTGCCATCC 1440 AGACCATGTC GCTGGATGCT GAGCGGAGGA AGCTGTATGT GAGCTCCCAG TGGGAGGTGA 1500 GCCAGGTGCC CCTGGACCTG TGTGAGGTCT ATGGCGGGGG CTGCCACGGT TGCCTCATGT 1560 CCCGAGACCC CTACTGCGGC TGGGACCAGG GCCGCTGCAT CTCCATCTAC AGCTCCGAAC . 1620 GGTCAGTGCT GCAATCCATT AATCCAGCCG AGCCACACAA GGAGTGTCCC AACCCCAAAC 1680 CAGACAAGGC CCCACTGCAG AAGGTTTCCC TGGCCCCAAA CTCTCGCTAC TACCTGAGCT 1740 GCCCCATGGA ATCCCGCCAC GCCACCTACT CATGGCGCCA CAAGGAGAAC GTGGAGCAGA 1800 GCTGCGAACC TGGTCACCAG AGCCCCAACT GCATCCTGTT CATCGAGAAC CTCACGGCGC 1860 AGCAGTACGG CCACTACTTC TGCGAGGCCC AGGAGGGCTC CTACTTCCGC GAGGCTCAGC 1920 ACTGGCAGCT GCTGCCCGAG GACGGCATCA TGGCCGAGCA CCTGCTGGGT CATGCCTGTG 1980 CCCTGGCTGC CTGAATTCGA AGCTTGGAGT CGACTCTGCT GAAGAGGAGG AAATTCTCCT 2040 TGAAGTTTCC CTGGTGTTCA AAGTAAAGGA GTTTGCACCA GACGCACCTC TGTTCACTGG 2100 TCCGGCGTAT TAAAACACGA TACATTGTTA TTAGTACATT TATTAAGCGC TAGATTCTGT 2160 GCGTTGTTGA TTTACAGACA ATTGTTGTAC GTATTTTAAT AATTCATTAA ATTTATAATC 2220 CONTRACTORS OF THE SECOND 22 C 200 S 1.00 2280 TTTAGGGTGG TATGTTAGAG CGAAAATCAA ATGATTTTCA GCGTCTTTAT ATCTGAATTT PROPERTY OF THE CONTRACT OF THE PROPERTY OF THE AAATATTAAA TCCTCAATAG ATTTGTAAAA TAGGTTTCGA TTAGTTTCAA ACAAGGGTTG 2340 . . . TTTTTCCGAA CCGATGGCTG GACTATCTAA TGGATTTTCG CTCAACGCCA CAAAACTTGC 2400 2460 CAAATCTTGT AGCAGCAATC TAGCTTTGTC GATATTCGTT TGTGTTTTGT TTTGTAATAA 2520 AGGTTCGACG TCGTTCAAAA TATTATGCGC TTTTGTATTT CTTTCATCAC TGTCGTTAGT GTACAATTGA CTCGACGTAA ACACGTTAAA TAAAGCCTGG ACATATTTAA CATCGGGCGT 2580 GTTAGCTTTA TTAGGCCGAT TATCGTCGTC GTCCCAACCC TCGTCGTTAG AAGTTGCTTC 2640 CGAAGACGAT TTTGCCATAG CCACACGACG CCTATTAATT GTGTCGGCTA ACACGTCCGC 2700 GATCAAATTT GTAGTTGAGC TTTTTGGAAT TATTTCTGAT TGCGGGCGTT TTTGGGCGGG 2760 TTTCAATCTA ACTGTGCCCG ATTTTAATTC AGACACACG TTAGAAAGCG ATGGTGCAGG 2820 CGGTGGTAAC ATTTCAGACG GCAAATCTAC TAATGGCGGC GGTGGTGGAG CTGATGATAA 2880 ATCTACCATC GGTGGAGGCG CAGGCGGGGC TGGCGGCGGA GGCGGAGGCG GAGGTGGTGG 2940 CGGTGATGCA GACGGCGGTT TAGGCTCAAA TTGTCTCTTT CAGGCAACAC AGTCGGCACC 3000 TCAACTATTG TACTGGTTTC GGGCGTATGG TGCACTCTCA GTACAATCTG CTCTGATGCC 3060 GCATAGTTAA GCCAGCCCG ACACCCGCCA ACACCCGCTG ACGCGCCCTG ACGGGCTTGT 3120 CTGCTCCGG CATCCGCTTA CAGACAAGCT GTGACCGTCT CCGGGAGCTG CATGTGTCAG 3180 AGGTTTTCAC CGTCATCACC GAAACGCGCG AGACGAAAGG GCCTCGTGAT ACGCCTATTT 3240 TTATAGGTTA ATGTCATGAT AATAATGGTT TCTTAGACGT CAGGTGGCAC TTTTCGGGGA 3300 AATGTGCGCG GAACCCCTAT TTGTTTATTT TTCTAAATAC ATTCAAATAT GTATCCGCTC 3360 ATGAGACAAT AACCCTGATA AATGCTTCAA TAATATTGAA AAAGGAAGAG TATGAGTATT 3420 CAACATTTCC GTGTCGCCCT TATTCCCTTT TTTGCGGCAT TTTGCCTTCC TGTTTTTGCT 3480 CACCCAGAAA CGCTGGTGAA AGTAAAAGAT GCTGAAGATC AGTTGGGTGC ACGAGTGGGT 3540 TACATCGAAC TGGATCTCAA CAGCGGTAAG ATCCTTGAGA GTTTTCGCCC CGAAGAACGT 3600 TTTCCAATGA TGAGCACTTT TAAAGTTCTG CTATGTGGCG CGGTATTATC CCGTATTGAC 3660 GCCGGGCAAG AGCAACTCGG TCGCCGCATA CACTATTCTC AGAATGACTT GGTTGAGTAC 3720 TCACCAGTCA CAGAAAAGCA TCTTACGGAT GGCATGACAG TAAGAGAATT ATGCAGTGCT 3780 GCCATAACCA TGAGTGATAA CACTGCGGCC AACTTACTTC TGACAACGAT CGGAGGACCG 3840 AAGGAGCTAA CCGCTTTTTT GCACAACATG GGGGATCATG TAACTCGCCT TGATCGTTGG 3900 GAACCGGAGC TGAATGAAGC CATACCAAAC GACGAGCGTG ACACCACGAT GCCTGTAGCA 3960 tork y level to object before the stopping charke ATGGCAACAA CGTTGCGCAA ACTATTAACT GGCGAACTAC TTACTCTAGC TTCCCGGCAA 4020 San Arthur CAATTAATAG ACTGGATGGA GGCGGATAAA GTTGCAGGAC CACTTCTGCG CTCGGCCCTT 4080 CCGGCTGGCT GGTTTATTGC TGATAAATCT GGAGCCGGTG AGCGTGGGTC TCGCGGTATC 4140 ATTGCAGCAC TGGGGCCAGA TGGTAAGCCC TCCCGTATCG TAGTTATCTA CACGACGGGG 4200 AGTCAGGCAA CTATGGATGA ACGAAATAGA CAGATCGCTG AGATAGGTGC CTCACTGATT 4260 AAGCATTGGT AACTGTCAGA CCAAGTTTAC TCATATATAC TTTAGATTGA TTTAAAACTT 4320 CATTTTTAAT TTAAAAGGAT CTAGGTGAAG ATCCTTTTTG ATAATCTCAT GACCAAAATC 4380 CCTTAACGTG AGTTTTCGTT CCACTGAGCG TCAGACCCCG TAGAAAAGAT CAAAGGATCT 4440

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	A. A. C.		ny ne b
TCTTGAGATC CTTTTTTCT	GCGCGTAATC TGCTGCTTGC	AAACAAAAAA ACCACCGCTA	4500
CCAGCGGTGG TTTGTTTGCC	GGATCAAGAG CTACCAACTC	TTTTTCCGAA GGTAACTGGC	4560
TTCAGCAGAG CGCAGATACC	AAATACTGTT CTTCTAGTGT	AGCCGTAGTT AGGCCACCAC	4620
TTCAAGAACT CTGTAGCACC	GCCTACATAC CTCGCTCTGC	TAATCCTGTT ACCAGTGGCT	4680
GCTGCCAGTG GCGATAAGTC	GTGTCTTACC GGGTTGGACT	CAAGACGATA GTTACCGGAT	4740
AAGGCGCAGC GGTCGGGCTG	AACGGGGGT TCGTGCACAC	AGCCCAGCTT GGAGCGAACG	4800
ACCTACACCG AACTGAGATA	CCTACAGCGT GAGCTATGAG	AAAGCGCCAC GCTTCCCGAA	4860
GGGAGAAAGG CGGACAGGTA	TCCGGTAAGC GGCAGGGTCG	GAACAGGAGA GCGCACGAGG	4920
GAGCTTCCAG GGGGAAACGC	CTGGTATCTT TATAGTCCTG	TCGGGTTTCG CCACCTCTGA	4980
CTTGAGCGTC GATTTTTGTG	ATGCTCGTCA GGGGGGCGGA	GCCTATGGAA AAACGCCAGC	5040
AACGCGGCCT TTTTACGGTT	CCTGGCCTTT TGCTGGCCTT	TTGCTCACAT GTTCTTTCCT	5100
GCGTTATCCC CTGATTCTGT	GGATAACCGT ATTACCGCCT	TTGAGTGAGC TGATACCGCT	5160
CGCCGCAGCC GAACGACCGA	GCGCAGCGAG TCAGTGAGCC	AGGAAGCATC CTGCACCATC	5220
GTCTGCTCAT CCATGACCTC	ACCATGCAGA GGATGATGCT	CGTGACGGTT AACGCCTCGA	5280
ATCAGCAACG GCTTGCCGTT	CAGCAGCAGC AGACCATTT	CAATCCGCAC CTCGCGGAAA	5340
CCGACATCGC AGGCTTCTGC	TTCAATCAGC GTGCCGTCGC	G CGGTGTGCAG TTCAACCACC	5400
GCACGATAGA GATTCGGGAT	TTCGGCGCTC CACAGTTTC	G GGTTTTCGAC GTTCAGACGT	5460
AGTGTGACGC GATCGGTATA	A ACCACCACGC TCATCGATA	A TTTCACCGCC GAAAGGCGCG	5520
GTGCCGCTGG CGACCTGCG	TTCACCCTGC CATAAAGAA	A CTGTTACCCG TAGGTAGTCA	5580
	G AACTTCAGCC TCCAGTACA	G CGCGGCTGAA ATCATCATTA	5640
AAGCGAGTGG CAACATGGA	· · · · · · · · · · · · · · · · · · ·	G GTTTATGCAG CAACGAGACG	5700
TCACGGAAAA TGCCGCTCA		T CCAGATAACT GCCGTCACTC	5760
	•	C GTAAAAATGC GCTCAGGTCA	5820
AATTCAGACG GCAAACGAC	r grccrggccg taaccgacc	C AGCGCCCGTT GCACCACAGA	5880
TGAAACGCCG AGTTAACGC	C ATCAAAAATA ATTCGCGTC	T GGCCTTCCTG TAGCCAGCTT	5940
TCATCAACAT TAAATGTGA	G CGAGTAACAA CCCGTCGGA	T TCTCCGTGGG AACAAACGGC	6000
GGATTGACCG TAATGGGAT	A GGTCACGTTG GTGTAGATG	G GCGCATCGTA ACCGTGCATC	6060
TGCCAGTTTG AGGGGACGA	C GACAGTATCG GCCTCAGGA	A GATCGCACTC CAGCCAGCTT	6120
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TCCGGCACCG	CTTCTGGTGC	CGGAAACCAG	GCAAAGCGCC	ATTCGCCATT	CAGGCTGCGC	6180
AACTGTTGGG	AAGGCCGATC	GGTGCGGGCC	TCTTCGCTAT	TACGCCAGCT	GGCGAAAGGG	6240
GGATGTGCTG	CAAGGCGATT	AAGTTGGGTA	ACGCCAGGGT	TTTCCCAGTC	ACGACGTTGT	6300
AAAACGACGG	GATCTATCAT	TTTTAGCAGT	GATTCTAATT	GCAGCTGCTC	TTTGATACAA	6360
CTAATTTTAC	GACGACGATG	CGAGCTTTTA	TTCAACCGAG	CGTGCATGTT	TGCAATCGTG	6420
CAAGCGTTAT	CAATTTTTCA	TTATCGTATT	GTTGCACATC	AACAGGCTGG	ACACCACGTT	6480
GAACTCGCCG	CAGTTTTGCG	GCAAGTTGGA	CCCGCCGCGC	ATCCAATGCA	AACTTTCCGA	6540
CATTCTGTTG	CCTACGAACG	ATTGATTCTT	TGTCCATTGA	TCGAAGCGAG	TGCCTTCGAC	6600
TTTTTCGTGT	CCAGTGTGGC	TT	,		•	6622

(2) INFORMATION FOR SEQ ID NO:43:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43: CCGGATCCGC CCAGGGCCAC CTAAGGAGCG G
- (2) INFORMATION FOR SEQ ID NO:44:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

CTGAATTCAG GAGCCAGGGC ACAGGCATG

29

31

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